

2-1-1949

The 1948 Iowa corn yield test

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Recommended Citation

Hutchcroft, Charles D. and Robinson, Joe L. (1949) "The 1948 Iowa corn yield test," *Bulletin P*: Vol. 4 : Bulletin P97 , Article 1.
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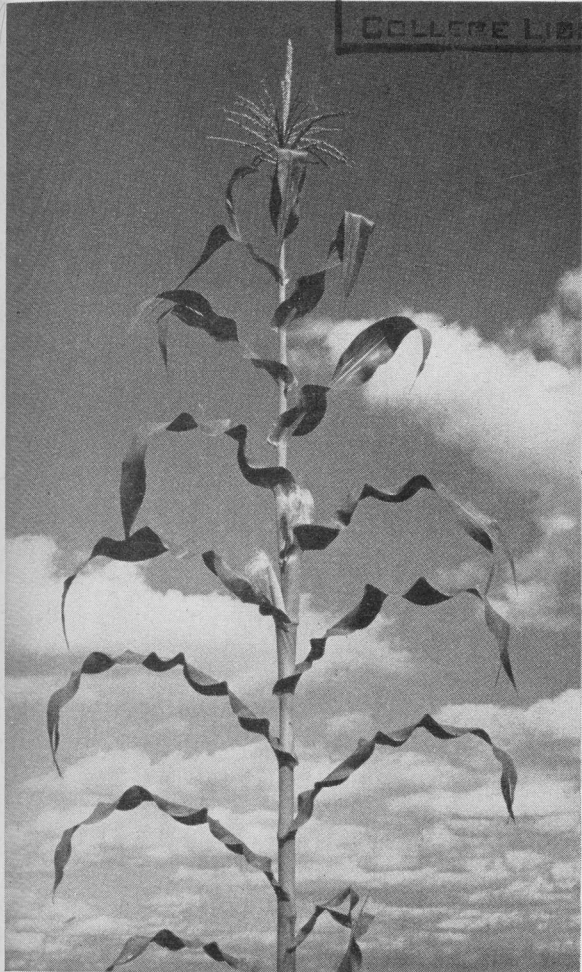
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BULLETIN P97



IOWA CORN YIELD TEST

1948

AGRICULTURAL EXPERIMENT STATION—AGRICULTURAL EXTENSION SERVICE
IOWA CORN AND SMALL GRAIN GROWERS' ASSOCIATION
BUREAU OF PLANT INDUSTRY, SOILS AND AGRICULTURAL ENGINEERING
AGRICULTURAL RESEARCH ADMINISTRATION
UNITED STATES DEPARTMENT OF AGRICULTURE, Cooperating

IOWA STATE COLLEGE

AMES, IOWA

Cooperative Extension Work in Agriculture and Home Economics, Iowa State College of Agriculture and Mechanic Arts and the United States Department of Agriculture cooperating. Extension Service, H. H. Kildee, director, Ames, Iowa. Distributed in furtherance of the Acts of Congress of May 8 and June 30, 1914.

Agricultural Experiment Station, Iowa State College of Agriculture and Mechanic Arts, H. H. Kildee, director, Ames, Iowa.

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FOREWORD

This bulletin presents the results of the 1948 Iowa Corn Yield Test. The purpose of the test is to determine the value of hybrids for all parts of Iowa.

In 1948 there were 326 entries. The state was divided into four sections and these sections were divided into 12 districts. You will find a map in the bulletin showing the division of the state and approximate location of the cooperating farms where the hybrids were tested.

The test is open to all producers of hybrid corn seed. In addition to the entries made by seed producers, the Iowa Corn and Small Growers' Association entered 10 of the most widely grown hybrids in each section of Iowa. These 10 were determined by a survey of farmers throughout the state.

In the back of the bulletin, you'll find an index listing the hybrids tested in 1948. The index also lists the tables showing the performance of each entry.

names and addresses of the cooperators on whose farms the test fields were located are given in table 1. Dates of planting and harvesting each test also are shown in this table.

TABLE 1. LOCATION OF TEST FIELDS AND DATES OF PLANTING AND HARVESTING.

Dist.	Cooperator	Post office	County	Date planted	Date harvested
1	Alvin Linch.....	Sheldon.....	Sioux.....	May 14	Oct. 21-22
2	Earl Dean.....	Mason City.....	Cerro Gordo....	May 15	Oct. 18
3	Fayette County Home...	West Union.....	Fayette.....	May 18	Oct. 26-27
4	J. N. Horlacher & Son...	Storm Lake.....	Buena Vista....	May 13	Oct. 25-26
5	R. W. Hagie.....	Clarion.....	Wright.....	May 7	Nov. 10
6	Lewis Greaser.....	Vinton.....	Benton.....	May 17	Oct. 28-29
7	Enos Voegel.....	Westside.....	Crawford.....	May 8	Oct. 13-14
8	Val Racek.....	Huxley.....	Story.....	May 14	Oct. 15-16
9	Maurice A. Johnston.....	Tipton.....	Cedar.....	May 19	Oct. 22-23
10	Earl McQuown, Jr.....	Red Oak.....	Montgomery....	May 12	Oct. 28
11	Wallace Creveling.....	New Virginia....	Clarke.....	May 13	Oct. 13-14
12	Howard Waters.....	Danville.....	Des Moines.....	May 20	Oct. 18-19

About the Entries

Each entry was planted in all three districts of a section. As shown in fig. 1, districts 1, 2 and 3 make up the northern section; districts 4, 5 and 6 make up the north central section, etc. Three hundred twenty-six of these section entries were planted in 1948. In table 2 you will see how the entries were distributed among the four sections in the state. An experimental entry is one produced in quantities of less than 50 bushels.

TABLE 2. DISTRIBUTION OF ENTRIES IN THE 1948 IOWA CORN YIELD TEST.

Section	Regular	Experimental	Total
Northern (Districts 1, 2, 3).....	66	15	81
North Central (Districts 4, 5, 6).....	77	23	100
South Central (Districts 7, 8, 9).....	66	15	81
Southern (Districts 10, 11, 12).....	52	12	64
Total.....	262	65	326

The requirements for entry in the Iowa Corn Yield Test will be sent to you upon request. Write to the Iowa Corn and Small Grain Growers' Association, Ames, Iowa.

How Seed Was Obtained and Entries Identified

All seed samples for planting, except the experimental entries, were taken at random, that is, several bags of seed were sampled without selection. Large quantities of seed were usually sampled at more than one location. These random samples were taken from seed to be sold to farmers. The sampling was done by a representative of the Iowa Corn and Small Grain Growers' Association.

At planting time each entry was given a number. The entries were known only by this number until after the plots were harvested and the calculations were finished. Therefore, no person concerned with the test knew the identity of any entry.

Method of Conducting Experiments

Suppose you entered Variety "X" in the south central section of the Iowa Corn Yield Test. What happened to this variety from the time the seed was collected until the experiment was completed?

Variety "X", which we shall call entry number 1, was planted eighteen times: six on the Enos Voege farm at Westside, six on the Val Racek farm at Huxley, and six on the Maurice Johnston farm at Tipton. Each of these eighteen plantings was called a plot. A plot is two rows, 10 hills long, or a total of 20 hills.

A diagram of the Huxley field is shown in fig. 2. All entries were randomized and replicated. Replicated means that all entries were repeated or planted more than once—six times in this field. Randomized means that the location of each plot of an entry in each replication was determined by chance. You can see where entry number 1 was planted in each replication in fig. 2.

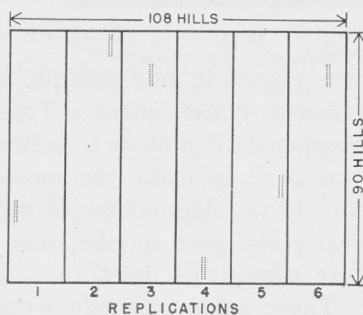


Fig. 2. Field design of the experiment at Huxley, Iowa, showing location of plots for one entry.

Some of the information about each entry was obtained in late August and early September. We counted the stalks and number of missing hills in each plot. Ear height also was recorded. This is the distance from the ground to where the ear shank attaches to the stalk. Five grades were used. They are shown in fig. 3. Grade 1 is under 24 inches; grade 2, 24-36 inches; grade 3, 36-48 inches; grade 4, 48-60 inches, and grade 5, over 60 inches.

Just before harvest your entry was checked for root lodging, stalk lodging and number of dropped ears. We counted the number of plants broken below the ear in each plot. We called these stalk lodged. Plants leaning more than 30 degrees from upright we called root lodged, as shown in fig. 4. The ears fallen to the ground we counted as dropped ears. Each plot was then husked in sacks and weighed.

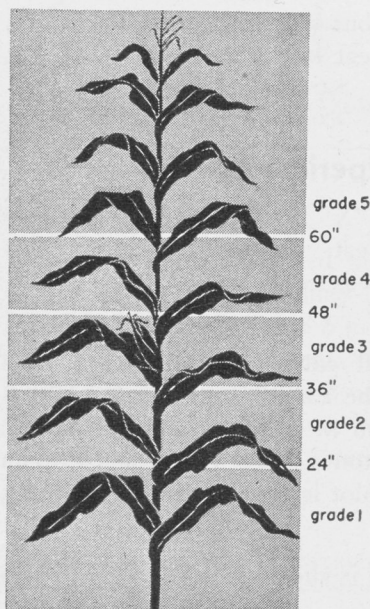


Fig. 3. Ear shown on stalk above is at grade 3.

was placed in two airtight moisture cans. These cans were taken to Ames where a Tag-Heppenstall moisture meter was used to make the moisture tests. An average of the two tests gave us the moisture content of the corn.

These same methods were followed in other districts for all entries tested in 1948.

Next, moisture samples were taken. The corn from replications one, three and five was used to get moisture content. For example, the ears harvested from the three plots for your entry were grouped together. Ten ears were taken at random from each sack, and two rows of kernels removed from each ear. The shelled corn then

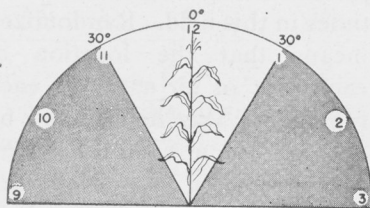


Fig. 4. Stalks leaning into shaded area (30° or more from vertical) are counted root-lodged.

Results for 1948

In general 1948 was a good corn growing year. The average yield of all varieties in the test was 88.75 bushels per acre. This was higher than for any previous year on record. Stand was about normal and moisture was 1 percent below the 14-year average. Lodging was 3 percent below average and the percent of dropped ears about equal to the 14-year average. The comparison of each year's results since 1935 is shown in table 3.

TABLE 3. SUMMARY OF RESULTS FROM THE AVERAGE OF ALL DISTRICTS FOR THE 14-YEAR PERIOD 1935 TO 1948, INCLUSIVE.

Year	Average yield bu.	Average stand pct.	Average moisture pct.	Average lodging pct.	Average dropped ears pct.
1935	66.08	78.3	24.1	15.9	1.4
1936	38.02	77.8	19.5	22.0	2.6
1937	72.63	84.8	21.0	18.7	0.8
1938	73.03	80.7	16.7	14.5	1.2
1939	78.21	84.1	15.1	16.4	3.1
1940	71.99	85.2	19.4	6.9	0.6
1941	68.31	87.2	20.7	34.9	1.0
1942	82.13	82.4	21.9	8.2	0.2
1943	83.13	78.9	24.7	9.1	0.2
1944	76.63	84.9	21.6	4.7	0.3
1945	71.76	86.8	24.9	28.3	0.8
1946	88.11	80.4	22.9	24.0	0.6
1947	55.12	80.6	18.3	27.9	1.0
1948	88.75	82.0	19.8	14.1	1.1
Average	72.42	82.4	20.8	17.5	1.1

A summary showing the average performance in each field is given in table 4. The field in district 10 at Red Oak and three replications in district 5 were omitted because we were

TABLE 4. A SUMMARY OF THE 1948 FIELD RESULTS—AVERAGE PERFORMANCE BY FIELDS.

District	Yield bu.	Stand percent	Moisture percent	Lodging percent		Dropped ears percent
				root	stalk	
1	81.23	82.5	20.8	37.2	4.4	0.8
2	39.47	76.0	17.7	0.0	11.5	1.7
3	70.53	82.5	21.5	4.6	3.8	0.2
4	96.38	82.4	16.9	2.4	2.9	1.5
5	101.42	83.6	16.6	14.7	4.2	1.4
6	96.28	85.2	16.9	1.0	4.8	1.7
7	98.27	82.7	21.6	14.2	3.6	1.0
8	97.35	75.2	19.0	1.8	1.4	0.3
9	90.34	83.3	26.9	2.2	4.1	1.0
10						
11	97.43	83.5	19.8	0.2	15.5	1.4
12	107.52	85.0	20.2	15.5	5.7	0.8
Average	88.75	82.0	19.8	8.5	5.6	1.1

doubtful that the information would give an accurate account of each hybrid's performance. This was due to environmental factors such as weed, insects, weather and soil conditions.

Are Farmers Planting Best Hybrids?

Have you ever wondered if you were planting the best hybrid available? We asked ourselves this question too. We wanted to find out if the majority of farmers were planting hybrids that perform above the average. Here is how we tried to get our answer. Questionnaires were sent to 6,600 farmers asking them to list the hybrids they planted and the number of acres planted to each variety.

The results of this survey were summarized by sections and 10 widely grown hybrids in each section were planted in the 1948 Iowa Corn Yield Test. We found that two-thirds of these widely grown hybrids performed below the average of all varieties tested. The widely grown varieties were entered in the test by the Iowa Corn and Small Grain Growers' Association. You will find them listed in the tables identified by three asterisks (***) in the "bushels produced" column.

How the Iowa Corn Yield Test Ties in With Certification

The results of the Iowa Corn Yield Test serve two purposes. First, the test gives impartial and unbiased performance data on different corn hybrids. Second, it provides a basis for judging the eligibility of a corn hybrid for certification.

Any corn hybrid is eligible for certification provided:

1. It is entered in the Iowa Corn Yield Test two out of the five years immediately preceding, or including, the year the hybrid is certified.
2. It has a definite pedigree known to the certifying agency.
3. It meets certain minimum requirements. The minimum requirements are obtained by comparing the performance of a hybrid with the average of four hybrids entered in each section. The four hybrids are selected by members of the Iowa Agricultural Experiment Association—the certifying agency in Iowa—and are listed in the certification requirements.

In general the requirements that make a hybrid eligible to be certified when compared with the average of the four hybrids selected for each section are as follows:

1. Must not exceed 112 percent of their average moisture content.
2. Must not have a greater percentage of lodged plants than the average plus 10.
3. Must yield at least 95 percent of the average of the four hybrids.

For additional information about certification write the Iowa Agricultural Experiment Association, Ames, Iowa.

How to Use the Tables

Information about each hybrid tested in 1948 is found in tables 5 to 23, inclusive. The tables are divided into three classes.

1. **District tables.** These tables 13 to 23, inclusive, report the results of each experiment conducted in 1948. All 12 districts, except district 10 at Red Oak, are included.

2. **Section tables.** There are four of these—tables 9 to 12, inclusive. They are the average of the three district tables in each section.

3. **Period-of-years tables.** These are averages of hybrids tested each year for the past 2, 3 and 4 years. A record for each section is given in tables 5 to 8, inclusive.

How can these tables help you pick out a good hybrid to plant next year? Here are a few suggestions.

The location of the test will be important to you in your selection of a good hybrid. Hybrids tested in sections too far north or too far south of your farm are of limited value to you. Tests east or west of your area should fit your conditions better. Suppose you live in Polk County, Iowa, then the results of the tests in districts 7, 8 and 9 should give you the information you want. In fig. 1 you will see that Polk County is located in district 8. The performance of 81 varieties tested in district 8 near Huxley, Iowa—the field nearest your farm—will be found in table 20.

One method of using the information is to choose several good varieties from the district table nearest your farm. Then check to see how these selected varieties rank in the section and period-of-years tables. Section tables are more

reliable than district tables because they represent the results from 18 plots and three locations for each variety instead of six plots and one location. Period-of-years tables are valuable because they show how a hybrid performs on the average over different seasons. Any hybrid that has a good record in all the above mentioned tables should be a good one for you to try on your farm next year.

When selecting a hybrid, choose one that is in production. Experimental entries are probably not yet in production. They will be designated by "Exp." in the "bushels produced" column. Entries marked "Comp." indicate the sample was a composite from several growers. You may obtain a list of growers of these varieties by writing to the Iowa Agricultural Experiment Association.

The first thing to consider in selecting a hybrid is its maturity. The moisture percentage of a hybrid compared with the average of the other hybrids is the best indication of its maturity. In general you want a hybrid that takes advantage of the full growing season to get the most yield. Yet you want to be sure the hybrid will mature before frost. (If you live in northern Iowa, maturity is extremely important.) Compare the moisture percentage of each hybrid with the average of all entries. A higher than average moisture content means a hybrid is later-than-average in maturity. The earlier hybrid will have a lower-than-average moisture content.

"Lodged" is the term used to describe stalks that are **not** standing up. There are two types of lodging—root and stalk. A plant was considered stalk-lodged when the stalk was broken below the ear. Unbroken stalks that were leaning were called root lodged. Percent stalk lodging is an indication of the ability of a hybrid to produce a strong stalk resistant to wind, insects and diseases. Low percentage of root lodging indicates ability to produce good roots that are resistant to insects, diseases and wind damage. The lower the percent of lodging the better the hybrid.

The columns headed "root and stalk lodging" compare each hybrid with the average of all entries. Your choice should be in the better-than-average group.

The column headed "dropped ears" should be used like root and stalk lodging. The higher the percentage of dropped

ears the less desirable is the hybrid. Again use the average of all entries as a base.

"Stand percentage" will give you an idea of how each variety germinated under actual field conditions. Stand is correlated with yield—the better the stand the higher the yield. This relationship should be considered when you evaluate a hybrid. Three kernels were planted in each hill and the percent stand is based on the number of plants that grew to maturity.

The "ear height" column gives the relative height of ears on the stalk. (See fig. 3.) Your choice here will probably be a matter of personal preference.

Assume that you have selected several hybrids that are better than average in all the above qualifications. The next thing to consider is yield. This is given in bushels per acre with moisture adjusted to 15.5 percent. It is not possible to determine relative yielding ability with absolute accuracy by any method of testing. Therefore, you should not conclude that any one variety is higher yielding than another if the differences shown in the tables are very small. You will find a figure in bushels per acre below each district and section table. This figure is the number of bushels by which two varieties must differ in yield before these varieties can be considered significantly different in yielding ability 19 out of 20 times.

Rather than using yield as the basis for ranking the hybrids, we have used a performance score. All hybrids in each table are ranked by a performance score based on four factors—yield, moisture, lodging and dropped ears. Moisture was changed to percent dry corn; lodging to percent of stalks standing; and dropped ears to percent of ears on the stalk. These factors plus yield were then changed to percent of the average of all varieties. The performance score was figured from these percentages. Fifty percent of the performance score is for yield, 20 percent is for dryness of corn, 20 percent for resistance to lodging and 10 percent for resistance to ear dropping.

You could use the performance score in selecting a good hybrid if you consider the above factors to have the same degree of importance as we have given them.

TABLE 5. NORTHERN SECTION—PERIOD-OF-YEARS

Average records of section entries in the 1948 Iowa Corn Yield Test and previous years. These entries include only those entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety, name and address of entrant, and bushels produced in 1947			Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
2-YEAR AVERAGE—1947, 1948										
Pioneer 349.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,675	108.68	61.72	82.6	19.0	17.0	5.8	2.7	1.1
C217.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*107.30	60.60	86.5	18.7	16.7	7.4	2.9	0.6
Tomahawk 42.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*106.80	59.83	84.8	18.4	17.6	6.2	3.0	0.9
H-11.....	Holden F. S. & Exp. Farms, Williamsburg.....	Exp.	*106.23	60.37	84.9	20.6	22.5	2.0	2.6	0.5
Pioneer 321.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,675	106.03	59.51	79.4	19.4	20.7	3.4	2.5	0.8
Iowa Hybrid 4441.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*105.16	58.07	83.2	17.0	22.1	3.2	2.7	0.5
PAG 299.....	J. M. Hunt & Son, Ackley.....	3,000	103.24	58.33	80.2	21.2	20.7	5.9	2.8	0.7
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.98	60.86	80.7	18.4	28.2	6.9	2.8	0.5
Mullins J-76.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*102.54	58.99	86.4	19.4	24.3	7.0	3.1	0.5
Farmers 321.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,680	101.05	57.20	78.2	21.6	23.3	5.7	2.7	0.7
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.81	57.78	86.5	18.4	27.3	6.3	2.7	0.7
111M.....	W. O. McCurdy & Sons, Fremont.....	1,250	100.64	53.39	76.1	20.5	20.0	3.1	2.6	0.1
Funk G-6.....	Funk Bros. Seed Co., Belle Plaine.....	20,000	100.48	53.50	77.4	17.8	18.3	7.7	2.3	0.3
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	400	100.22	56.77	83.4	20.7	23.8	6.9	2.7	1.1
PAG 4897.....	Wilson-Rininger Corn Co., Sac City.....	3,600	99.31	56.44	79.7	20.7	26.0	6.2	2.8	0.9
Cornelius 404C.....	Cornelius Hybrid Corn Co., Bellevue.....	600	98.76	54.50	79.3	20.7	23.6	6.0	2.7	0.3
Iowa Hybrid 4442.....	John Sand, Marcus.....	500	98.67	51.64	81.2	17.9	21.7	4.4	2.7	0.7
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.66	54.32	83.4	21.0	24.2	4.8	2.8	0.9
ACE 94.....	Eliason Seed Sales, West Liberty.....	400	97.94	53.52	83.0	21.7	21.4	7.1	2.8	0.5
Turner N14A.....	Turner Hybrid Seed Corn Co., Grand Junction.....	745	97.41	53.39	80.6	23.4	24.8	3.3	2.7	0.2
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.08	52.83	77.3	19.8	24.4	6.3	2.8	0.6
105H.....	Harpers Hardy Hybrids, Vinton.....	300	96.83	53.14	79.6	20.4	23.7	7.8	2.9	0.4
Iowa Hybrid 4308.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.70	52.08	79.2	18.2	27.3	4.2	2.6	0.4
Funk G-1A.....	Funk Bros. Seed Co., Belle Plaine.....	16,000	96.07	51.30	76.4	17.0	25.1	7.3	2.2	0.3
Turner T26.....	Turner Hybrid Seed Corn Co., Grand Junction.....	496	95.63	53.08	79.6	21.9	28.2	4.6	2.6	0.6
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.19	52.18	81.7	18.8	28.2	6.4	2.7	0.7
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	93.87	54.42	78.6	20.8	28.1	12.7	2.9	0.4
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	93.83	52.61	82.9	21.6	32.3	3.9	2.5	0.8
Funk G-4.....	Funk Bros. Seed Co., Belle Plaine.....	3,300	91.91	47.10	78.4	17.3	24.9	8.2	2.3	0.1
Average of all entries.....				55.50	81.1	19.7	23.7	5.9	2.7	0.6

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3-YEAR AVERAGE—1946, 1947, 1948										
Tomahawk 42.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*106.98	74.42	85.1	20.6	23.3	5.4	2.9	0.6
Iowa Hybrid 4441.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*105.82	69.59	82.7	18.7	22.0	3.1	2.7	0.3
C217.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*105.45	73.11	85.7	21.7	23.6	5.5	2.8	0.4
Mullins J-76.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*104.05	73.37	86.3	20.7	27.9	5.6	3.0	0.4
Funk G-6.....	Funk Bros. Seed Co., Belle Plaine.....	20,000	101.29	66.30	79.6	19.8	23.0	5.9	2.3	0.2
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.00	72.85	80.7	20.7	33.8	5.7	2.7	0.3
Funk G-1A.....	Funk Bros. Seed Co., Belle Plaine.....	16,000	100.88	66.06	78.4	18.9	24.9	5.3	2.2	0.2
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	400	100.38	70.07	82.9	22.2	29.5	5.4	2.7	0.7
Farmers 321.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,680	99.05	67.63	78.3	24.0	27.9	4.5	2.6	0.5
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.96	67.02	83.6	23.5	28.2	3.8	2.8	0.6
Turner N14A.....	Turner Hybrid Seed Corn Co., Grand Junction.....	745	98.00	65.69	80.7	24.9	28.0	2.9	2.7	0.2
111M.....	W. O. McCurdy & Sons, Fremont.....	1,250	97.46	66.89	78.6	22.8	25.7	10.2	2.6	0.1
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.30	62.97	80.7	20.8	26.0	5.4	2.7	0.5
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.45	66.67	83.4	20.4	34.7	5.0	2.7	0.5
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.34	63.58	77.6	22.0	28.3	5.2	2.8	0.5
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.88	66.53	80.0	22.4	28.4	10.7	2.9	0.3
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.65	64.30	83.7	24.2	33.1	3.5	2.6	0.5
Average of all entries.....				68.06	81.7	21.7	27.6	5.5	2.7	0.4
4-YEAR AVERAGE—1945, 1946, 1947, 1948										
Iowa Hybrid 4441.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*107.37	69.45	85.2	18.8	16.5	3.6	2.8	0.3
Tomahawk 42.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*105.64	71.28	86.9	22.6	17.5	6.5	2.9	0.7
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.08	69.60	82.8	21.9	25.6	4.8	2.8	0.3
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	400	101.86	68.46	84.2	23.5	22.2	4.7	2.8	1.3
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.89	66.18	86.1	20.3	26.6	4.2	2.8	0.5
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.70	61.79	82.7	20.7	19.7	5.3	2.8	0.8
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.51	62.35	78.9	21.8	21.2	4.3	2.9	0.7
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.78	62.49	80.7	23.6	21.3	9.5	3.0	0.5
Turner N14A.....	Turner Hybrid Seed Corn Co., Grand Junction.....	745	95.70	60.82	80.7	28.3	21.0	2.5	2.8	0.2
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.48	61.17	85.8	27.3	25.2	2.8	2.7	0.5
Average of all entries.....				65.36	83.4	22.9	21.7	4.8	2.8	0.6

*Experimental entries.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 6. NORTH CENTRAL SECTION—PERIOD-OF-YEARS

Average records of section entries in the 1948 Iowa Corn Yield Test and previous years. These entries include only those entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety, name and address of entrant, and bushels produced in 1947		Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.	
						root	stalk			
2-YEAR AVERAGE—1947, 1948										
Mullins J-54.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*104.76	79.97	87.1	15.8	3.9	3.4	3.2	1.2
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.46	81.87	82.0	16.1	7.6	3.9	3.0	0.9
Iowa Hybrid 4411.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.91	81.22	84.6	16.9	6.8	4.0	2.9	1.5
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	30,000	103.82	82.72	83.5	18.4	6.2	5.9	3.5	1.9
J-39-A.....	Jacobsen Hybrid Corn Co., Lake View.....	1,500	103.64	80.88	83.0	17.9	7.0	3.2	2.9	0.8
Iowa Hybrid 4060.....	Harpers Hardy Hybrids, Vinton.....	300	103.51	81.15	85.5	16.5	5.0	6.2	3.4	3.8
Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	103.45	81.34	85.4	16.9	10.3	2.5	3.1	0.4
Iowa Hybrid 4297.....	Roy Fanselow, Dows.....	250	103.07	80.71	83.7	16.4	9.7	3.3	3.0	0.9
PAG 366B.....	Black & Abbott Farms, Walnut, Ill.....	3,075	102.95	81.11	84.5	16.3	8.8	5.3	2.9	1.1
Tomahawk 61.....	Thompson Hybrid Corn Co., Inc., Belmont.....	Exp.	*102.91	79.57	87.1	16.3	8.2	3.0	3.3	1.5
Webster 459.....	Webster Hybrids, Inc., Fort Dodge.....	1,000	102.44	79.08	82.5	17.6	6.9	3.3	2.8	1.7
Iowa Hybrid 4297.....	Iowa State Hybrid Corn Co., Elkhart.....	450	102.30	81.31	80.9	16.3	13.6	2.9	3.0	0.7
United U41A.....	United Hybrid Growers' Assn., Shenandoah.....	Exp.	*102.01	78.74	82.9	16.1	7.0	5.7	3.2	0.9
600.....	W. O. McCurdy & Sons, Fremont.....	1,000	101.12	77.71	80.9	16.3	9.5	3.8	2.8	0.5
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.02	80.61	85.0	16.1	14.4	4.4	2.9	1.3
PAG 35-2965.....	Wilson-Rininger Corn Co., Sac City.....	Exp.	*100.22	74.68	83.3	17.0	6.1	2.8	2.8	1.9
Farmers 427A.....	Farmers Hybrid Seed Corn Co., Hampton.....	12,500	100.09	74.90	79.2	15.9	7.6	3.8	2.8	0.6
Beeghly 150.....	Milford Beeghly, Pierson.....	1,200	100.02	75.20	80.3	15.6	8.4	4.1	2.8	0.5
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	100.01	75.22	87.0	17.9	4.3	5.1	3.3	2.3
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.26	76.70	80.3	17.2	9.7	5.2	3.4	2.5
Pride D66.....	Pride Hybrid Co., Dassel, Minn.....	12,000	99.13	75.70	76.0	15.6	10.8	4.9	3.3	1.1
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.89	75.80	80.8	16.7	11.0	4.2	3.0	1.6
DeKalb 458.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.64	77.30	81.7	16.3	14.1	5.2	3.0	1.2
United U36.....	United Hybrid Growers Assn., Shenandoah.....	3,100	98.61	71.52	77.8	15.0	6.7	3.3	2.7	1.2
Funk G-29.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.40	73.53	79.8	17.2	9.1	2.9	2.8	1.3
Pioneer 343.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,006	98.39	77.87	85.0	16.2	14.4	6.6	2.8	1.6
Iowa Hybrid 4316.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.04	76.31	80.1	16.1	13.2	6.0	3.0	1.6
Pioneer 344.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,963	97.82	76.49	79.8	16.5	16.4	3.7	3.0	0.8
Maygold 89.....	Earl E. May Seed Co., Shenandoah.....	1,300	97.76	70.57	78.4	16.3	6.2	3.0	2.7	1.5
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.33	75.64	83.9	16.3	13.6	6.0	3.1	2.0
112M.....	W. O. McCurdy & Sons, Fremont.....	3,000	97.07	71.49	77.4	15.8	9.8	3.9	2.8	0.8
Farmers 322.....	Farmers Hybrid Seed Corn Co., Hampton.....	5,500	97.04	72.53	76.7	17.8	9.4	3.9	2.8	1.6
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.63	76.19	80.3	17.5	16.3	4.9	3.1	2.4
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.51	70.34	76.4	14.6	10.4	3.9	2.9	1.0
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.50	73.98	83.6	16.3	14.3	4.3	3.0	2.7
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.44	75.92	80.7	15.0	17.3	7.3	3.3	0.6
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.23	74.69	77.8	17.0	11.9	8.4	3.1	1.9
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.56	73.60	81.7	17.0	10.6	8.5	3.4	4.4
Average of all entries.....			76.95	81.8	16.5	9.9	4.5	3.0	1.5	

Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.23	74.69	77.8	17.0	11.9	8.4	3.1	1.9
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.56	73.60	81.7	17.0	10.6	8.5	3.4	4.4
Average of all entries.....			96.23	74.69	77.8	17.0	11.9	8.4	3.1	1.9

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3-YEAR AVERAGE—1946, 1947, 1948

Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	104.58	88.22	83.5	18.5	14.3	2.5	3.0	0.6
Mullins J-54.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*104.39	85.38	85.8	18.0	8.8	4.1	3.0	1.0
Iowa Hybrid 4060.....	Harpers Hardy Hybrids, Vinton.....	300	104.16	84.63	82.7	18.2	6.2	5.0	3.2	3.1
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	30,000	103.84	85.19	82.1	20.1	6.4	5.3	3.3	1.7
Tomahawk 61.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*103.03	85.73	87.2	18.0	13.4	3.7	3.1	1.2
J-39-A.....	Jacobsen Hybrid Corn Co., Lake View.....	1,500	102.80	84.51	79.6	19.4	10.8	3.7	2.9	0.7
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.56	85.07	80.0	17.9	13.2	4.4	3.0	0.7
Iowa Hybrid 4297.....	Iowa State Hybrid Corn Co., Elkhardt.....	450	102.38	84.69	80.1	18.0	14.6	2.8	2.9	0.6
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.04	84.89	85.6	18.1	15.8	5.3	2.8	1.0
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	100.74	80.33	85.1	19.6	7.0	5.5	3.3	1.8
Beeghly 150.....	Milford Beeghly, Pierson.....	1,200	100.10	78.79	77.0	17.5	10.9	3.4	2.7	0.5
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.04	82.14	79.2	18.9	11.4	6.5	3.2	2.3
Pioneer 343.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,006	100.01	83.81	85.3	17.7	16.6	5.8	2.8	1.3
Pride D66.....	Pride Hybrid Company, Dassel, Minn.....	12,000	99.59	79.82	75.6	17.3	12.7	4.8	3.1	0.8
DeKalb 458.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.16	81.50	79.6	18.0	14.8	5.8	2.8	1.2
Farmers 427A.....	Farmers Hybrid Seed Corn Co., Hampton.....	12,500	99.08	79.51	76.3	17.7	13.3	4.8	2.7	0.5
112M.....	W. O. McCurdy & Sons, Fremont.....	3,000	98.62	78.15	77.2	17.7	13.6	3.3	2.8	0.9
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.02	80.25	81.8	18.1	15.8	5.6	3.0	1.5
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.26	78.40	81.6	18.4	15.0	4.7	3.0	2.4
Iowa Hybrid 4316.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.24	82.02	81.7	17.9	19.6	7.1	2.9	1.4
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.14	77.43	81.2	19.2	13.1	5.0	3.0	1.2
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.45	79.17	78.7	16.7	18.0	7.7	3.2	0.5
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.31	78.93	77.2	19.6	16.1	6.0	3.0	2.1
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.85	79.04	79.5	18.4	15.8	9.1	3.0	1.7
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.62	73.17	76.3	16.8	12.8	4.7	2.9	1.3
Average of all entries.....			81.63	80.8	18.2	13.2	5.1	3.0	1.3	

4-YEAR AVERAGE—1945, 1946, 1947, 1948

Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	104.72	82.46	84.6	19.3	17.7	2.5	2.9	0.6
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	30,000	103.64	79.14	84.7	22.5	8.9	4.9	3.2	1.4
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.63	80.70	81.5	19.5	17.2	5.2	2.9	0.8
Beeghly 150.....	Milford Beeghly, Pierson.....	1,200	101.57	75.08	79.0	18.8	12.7	3.6	2.6	0.4
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.12	77.34	81.1	20.6	13.0	5.9	3.2	2.2
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	100.63	74.45	86.4	22.5	8.4	5.2	3.3	1.5
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.48	76.48	81.6	19.6	18.0	5.1	3.1	1.3
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.31	74.46	83.9	19.8	14.8	4.7	3.0	2.2
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.19	73.14	83.0	21.1	14.5	4.8	2.9	1.1
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.99	75.38	81.6	17.5	18.8	8.8	3.2	0.4
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.44	76.16	81.7	19.6	18.5	9.4	2.9	1.4
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.74	71.12	79.7	17.9	17.7	5.0	2.9	1.4
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.57	74.00	80.0	21.9	18.1	5.8	3.0	2.1
Average of all entries.....			76.15	82.4	20.1	15.3	5.5	3.0	1.3	

*Experimental entries.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 7. SOUTH CENTRAL SECTION—PERIOD-OF-YEARS

Average records of section entries in the 1948 Iowa Corn Yield Test and previous years. These entries include only those entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety, name and address of entrant, and bushels produced in 1947				Perform- ance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
2-YEAR AVERAGE—1947, 1948								root	stalk		
Tomahawk 80.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*106.71	82.60	84.1	20.7	3.7	3.6	3.0	1.0	
H-3.....	Holden F. S. & Exp. Farms, Williamsburg.....	50	105.73	85.58	82.4	20.8	11.7	3.2	3.4	1.5	
Cornelius C66.....	Cornelius Hybrid Corn Co., Bellevue.....	100	104.80	81.87	83.5	21.2	7.8	3.1	3.1	0.6	
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	104.70	84.52	84.2	21.8	12.3	3.0	3.3	0.4	
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	450	104.07	83.70	83.7	21.7	12.2	3.2	3.3	1.1	
Pioneer 335.....	Pioneer Hi-Bred Corn Co., Des Moines.....	12,450	103.59	84.41	87.0	21.2	15.3	3.4	3.0	0.6	
307H.....	Harpers Hardy Hybrids, Vinton.....	300	103.23	81.00	82.8	19.5	12.4	3.1	3.0	0.5	
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	102.75	78.18	79.9	20.9	6.8	3.3	3.4	1.2	
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	102.12	81.82	84.3	21.8	13.8	3.7	3.3	0.7	
117M.....	W. O. McCurdy & Sons, Fremont.....	1,850	101.90	79.03	78.5	21.8	9.5	3.6	3.2	1.0	
PAG 392.....	Pfister Associated Growers, Inc., Monroe.....	1,100	101.74	77.92	79.6	19.9	8.4	5.0	3.4	1.4	
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,272	101.49	81.96	82.2	21.7	15.6	3.9	3.3	0.9	
Dockendorff 52.....	Wm. Dockendorff & Sons, Danville.....	610	100.81	81.66	84.4	22.8	16.6	3.0	3.3	1.1	
Funk G-169.....	Funk Bros. Seed Co., Belle Plaine.....	6,329	100.70	78.44	81.0	21.5	8.6	6.9	3.5	1.4	
Webster 480.....	Webster Hybrids, Inc., Fort Dodge.....	200	100.66	80.26	83.3	22.2	14.8	3.5	3.2	0.8	
Maygold 59.....	Earl E. May Seed Co., Shenandoah.....	2,000	100.38	76.56	80.0	20.5	11.1	3.1	3.2	1.2	
PAG 281.....	J. M. Hunt & Son, Ackley.....	300	100.38	76.80	77.9	19.5	12.6	3.1	3.0	1.1	
Indiana Hybrid 620A.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.24	78.39	78.0	20.2	15.2	3.1	2.9	0.7	
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	26,000	100.06	78.76	83.8	20.6	14.9	3.8	3.2	1.5	
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.97	77.19	81.1	21.2	11.5	4.2	3.3	1.2	
PAG 5897.....	Associated Pfister Growers, Davenport.....	5,000	99.92	82.86	84.1	20.8	21.9	4.3	3.1	1.2	
Indiana Hybrid 620C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.90	79.52	80.2	21.8	14.3	4.8	3.0	1.8	
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.69	80.50	83.8	22.6	15.7	5.0	3.5	1.5	
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	800	99.39	79.72	79.6	22.3	14.6	5.9	3.7	1.4	
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.32	75.36	84.0	19.3	12.2	4.0	2.8	1.3	
United U50.....	United Hybrid Growers Assn., Shenandoah.....	3,100	98.28	73.20	78.2	20.8	11.7	2.3	3.1	0.6	
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.18	74.07	78.7	19.5	15.4	3.5	3.2	3.0	
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	1,975	97.13	76.61	81.1	22.6	16.6	4.4	3.4	1.2	
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.05	78.08	80.6	21.3	22.4	2.8	3.0	1.1	
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.33	76.17	78.9	21.4	20.5	3.1	3.1	1.4	
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.06	72.79	83.7	19.8	16.6	2.8	2.9	3.0	
United U57.....	United Hybrid Growers Assn., Shenandoah.....	3,050	95.48	69.79	79.9	21.2	11.5	3.4	3.2	1.5	
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.18	70.85	76.0	19.9	18.2	3.1	2.9	2.4	

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DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.17	68.60	78.6	18.6	16.9	2.4	2.9	1.1
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	89.93	67.83	76.5	19.0	21.2	7.0	3.0	3.4
Average of all entries.....				78.19	81.3	20.9	13.8	3.8	3.2	1.3
3-YEAR AVERAGE—1946, 1947, 1948										
H-3.....	Holden F. S. & Exp. Farms, Williamsburg.....	50	105.65	86.43	82.6	21.2	8.3	2.7	3.3	1.1
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	104.96	85.84	85.5	22.1	8.4	2.8	3.3	0.4
307H.....	Harpers Hardy Hybrids, Vinton.....	300	103.17	81.85	81.5	19.9	8.9	2.6	2.9	0.4
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	102.91	80.17	80.4	21.2	4.7	2.8	3.3	1.0
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	450	102.79	82.58	82.5	21.9	8.9	2.6	3.3	0.9
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	101.95	81.85	81.4	22.2	9.5	2.9	3.3	0.6
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	26,000	101.21	80.86	82.8	21.0	10.2	3.6	3.1	1.2
117M.....	W. O. McCurdy & Sons, Fremont.....	1,850	100.88	79.37	80.4	22.1	7.0	3.9	3.3	1.0
Maygold 59.....	Earl E. May Seed Co., Shenandoah.....	2,000	100.57	78.06	80.3	21.0	7.8	2.8	3.1	1.0
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.53	78.89	81.4	21.8	8.0	3.4	3.2	0.9
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	800	100.39	81.42	79.1	22.7	9.9	5.4	3.6	1.2
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.14	81.11	82.9	22.9	10.6	4.6	3.4	1.3
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.87	77.37	82.0	20.2	9.0	3.2	2.8	1.1
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.43	78.51	81.5	22.4	15.7	3.1	3.0	1.3
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.07	76.56	79.2	21.6	14.2	3.0	3.0	1.2
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.57	73.54	82.1	20.5	11.2	2.7	2.9	2.2
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.34	72.33	79.7	19.3	11.9	2.3	2.8	1.0
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.56	72.88	76.1	20.4	12.9	3.0	2.9	1.8
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	92.02	69.84	76.3	19.6	15.3	5.7	3.0	2.8
Average of all entries.....				78.92	80.9	21.3	10.1	3.3	3.1	1.2
4-YEAR AVERAGE—1945, 1946, 1947, 1948										
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	105.30	84.34	86.2	22.2	7.8	4.0	3.3	0.3
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	103.29	78.58	80.3	21.0	4.3	3.7	3.3	1.0
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	450	103.09	81.06	83.8	22.5	8.6	3.0	3.3	0.7
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	102.69	80.38	81.9	22.4	8.2	3.5	3.3	0.5
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	26,000	101.17	79.51	83.7	21.9	10.0	4.7	3.2	1.1
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.14	78.00	83.1	20.2	10.4	3.5	2.9	1.0
117M.....	W. O. McCurdy & Sons, Fremont.....	1,850	100.95	77.71	80.2	22.5	5.9	5.6	3.3	0.8
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	800	100.72	80.34	80.0	23.0	9.0	7.2	3.5	1.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.47	80.22	83.9	23.3	10.2	6.2	3.5	1.2
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.26	73.45	82.0	20.7	9.6	3.2	2.9	2.0
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.12	76.45	80.1	21.8	13.9	4.0	3.0	1.0
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.75	74.18	76.8	20.6	11.7	4.1	3.0	1.7
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.78	76.07	80.7	23.1	14.0	5.5	3.0	1.2
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.24	72.06	78.6	19.3	12.8	5.0	2.9	1.3
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.03	71.95	77.8	20.0	15.5	6.9	3.0	3.0
Average of all entries.....				77.62	81.3	21.6	10.1	4.7	3.2	1.2

*Experimental entries.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 8. SOUTHERN SECTION—PERIOD-OF-YEARS

Average records of section entries in the 1948 Iowa Corn Yield Test and previous years. These entries include only those entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety, name and address of entrant, and bushels produced in 1947			Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
2-YEAR AVERAGE—1947, 1948										
124M.....	W. O. McCurdy & Sons, Fremont.....	3,500	103.50	89.76	85.6	17.8	4.2	12.7	3.3	1.4
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	2,985	103.41	90.49	85.5	18.7	5.2	12.0	3.4	2.0
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3,000	103.01	87.65	84.0	18.6	3.9	9.7	3.5	2.2
McAllister 73.....	McAllister Seed Farms, Mt. Union.....	3,100	102.82	84.93	83.9	17.6	4.9	6.4	3.3	0.6
Illinois Hybrid 21.....	McAllister Seed Farms, Mt. Union.....	500	102.27	85.44	82.7	18.1	5.1	7.9	3.4	1.0
Pioneer 335.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	8,008	102.09	87.25	84.9	17.4	9.7	7.7	3.1	0.6
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1,581	101.77	87.25	82.4	18.4	4.7	12.2	3.4	1.5
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.76	87.28	83.0	18.9	5.0	11.4	3.4	1.6
123M.....	W. O. McCurdy & Sons, Fremont.....	2,000	101.50	87.70	83.1	18.6	4.5	13.5	3.5	1.9
United U65.....	United Hybrid Growers Assn., Shenandoah.....	3,500	101.46	88.39	85.0	19.0	4.4	14.3	3.4	2.3
U. S. Hybrid 13.....	McAllister Seed Farms, Mt. Union.....	3,300	101.44	87.32	84.7	19.4	6.3	10.6	3.4	1.5
Bear OK-40.....	Bear Hybrids Corn Co., Decatur, Ill.....	4,000	101.28	84.67	83.8	17.1	4.0	11.7	3.1	0.5
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	425	100.76	86.34	84.2	18.4	5.8	12.4	3.3	1.5
Pioneer 336.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.41	85.58	84.2	17.8	5.6	13.3	3.3	0.6
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.76	86.01	84.3	19.0	8.9	11.2	3.3	0.8
Maygold 59A.....	Earl E. May Seed Co., Shenandoah.....	21,000	99.54	82.97	84.3	17.7	7.3	9.4	3.4	1.5
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.48	78.90	84.9	16.6	4.9	6.3	3.0	1.5
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,300	98.72	82.31	84.0	18.2	7.2	10.5	3.3	0.7
840.....	W. O. McCurdy & Sons, Fremont.....	500	98.31	78.29	78.6	17.2	4.5	8.6	3.2	0.9
Pioneer 331.....	Pioneer Hi-Bred Corn Co., Des Moines.....	6,300	97.90	76.51	81.6	16.1	4.0	8.3	3.2	1.1
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.82	83.47	79.7	18.2	7.7	14.4	3.3	0.8
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.81	79.12	81.6	17.5	5.2	10.3	3.2	1.0
Pfister 1897.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.80	82.26	82.6	18.4	9.1	10.5	3.3	1.6
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.28	76.15	79.2	17.1	3.8	7.9	3.1	2.8
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,850	96.48	79.89	82.1	17.0	7.0	14.0	3.1	1.0
ACE 193.....	Eliason Seed Sales, West Liberty.....	620	96.10	77.01	84.4	18.9	4.0	11.2	3.4	1.3
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,550	95.50	77.09	73.8	18.9	6.4	10.8	3.4	0.9
Average of all entries.....				83.71	82.9	18.0	5.7	10.7	3.3	1.3

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3-YEAR AVERAGE—1946, 1947, 1948										
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3,000	103.07	91.42	84.8	18.9	9.7	9.7	3.4	1.6
McAllister 73.....	McAllister Seed Farms, Mt. Union.....	3,100	102.24	87.45	85.7	18.0	11.6	5.3	3.2	0.4
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	2,985	102.23	90.90	85.9	19.5	9.5	10.8	3.4	1.5
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.75	89.17	82.9	19.4	9.8	9.3	3.3	1.3
124M.....	W. O. McCurdy & Sons, Fremont.....	3,500	101.69	88.00	84.5	18.2	8.2	10.5	3.3	1.1
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1,581	100.94	88.89	82.4	19.0	9.9	11.3	3.5	1.3
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.89	86.17	82.8	18.0	8.9	9.4	3.1	0.9
123M.....	W. O. McCurdy & Sons, Fremont.....	2,000	100.77	88.80	82.1	19.1	10.0	11.3	3.4	1.6
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	425	100.74	90.66	86.5	18.9	11.9	12.6	3.3	1.4
U. S. Hybrid 13.....	McAllister Seed Farms, Mt. Union.....	3,300	99.87	89.33	83.7	19.5	13.2	11.0	3.4	1.4
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,300	99.68	85.69	84.0	18.6	11.8	8.5	3.2	0.6
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.57	89.39	83.5	19.0	14.3	11.6	3.2	0.6
Maygold 59A.....	Earl E. May Seed Co., Shenandoah.....	21,000	99.39	86.08	84.7	18.2	14.2	7.7	3.3	1.0
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.23	86.91	81.8	18.5	10.6	12.9	3.2	0.5
Pioneer 331.....	Pioneer Hi-Bred Corn Co., Des Moines.....	6,300	99.10	81.57	83.7	16.8	9.4	7.8	3.1	0.8
ACE 193.....	Eliason Seed Sales, West Liberty.....	620	98.71	82.84	83.7	19.0	7.2	10.8	3.3	0.9
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,850	98.60	84.92	82.8	17.8	10.6	12.1	3.0	0.8
Pfister 1897.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.35	83.34	81.6	18.4	13.8	9.0	3.1	1.3
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.32	78.50	79.8	17.8	9.5	6.2	2.9	2.1
840.....	W. O. McCurdy & Sons, Fremont.....	500	96.81	77.60	75.2	17.8	8.5	7.5	3.1	1.3
Average of all entries.....			86.38	83.1	18.5	10.6	9.8	3.2	1.1	
4-YEAR AVERAGE—1945, 1946, 1947, 1948										
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	2,985	101.88	90.06	87.1	19.7	15.0	13.3	3.5	1.2
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3,000	101.78	90.44	85.8	19.0	13.6	16.0	3.5	1.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.32	90.27	85.5	19.6	14.7	15.3	3.4	1.1
124M.....	W. O. McCurdy & Sons, Fremont.....	3,500	101.09	88.05	85.7	18.4	13.0	15.7	3.4	0.9
123M.....	W. O. McCurdy & Sons, Fremont.....	2,000	100.17	88.99	84.3	19.2	14.2	17.0	3.5	1.4
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,300	100.14	85.87	85.3	18.5	16.5	11.6	3.2	0.5
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	425	99.78	90.99	88.0	19.3	13.9	20.8	3.5	1.2
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.58	87.48	84.1	18.7	15.5	15.8	3.4	0.6
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,850	99.41	86.59	85.3	18.1	14.1	16.9	3.1	0.7
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1,581	98.76	87.13	84.2	19.4	13.3	18.7	3.6	1.0
ACE 193.....	Eliason Seed Sales, West Liberty.....	620	98.22	83.90	85.0	19.5	11.6	17.4	3.4	0.8
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.83	89.11	86.1	19.6	21.6	15.1	3.2	0.6
Average of all entries.....			88.24	85.5	19.1	14.8	16.1	3.4	0.9	

***Widely grown hybrids as determined by a survey of farmers.

TABLE 9. NORTHERN SECTION 1948
Average performance of regular and experimental classes in districts 1, 2 and 3.

Variety, name and address of entrant, and bushels produced in 1947			Performance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Pioneer 349.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,675	110.76	73.43	83.2	19.6	9.9	3.0	2.7	1.3
Pioneer 352.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,150	109.24	72.30	82.2	20.3	10.8	3.3	2.8	0.8
Tomahawk 42.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*108.33	69.67	85.5	19.7	6.2	5.1	3.1	1.7
C217.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*106.48	68.69	84.5	18.6	8.5	6.9	2.8	1.1
Pioneer 321.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,675	106.27	66.98	80.4	19.9	7.9	3.2	2.6	1.3
Pioneer 352.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	336	105.98	67.62	80.5	21.4	8.9	2.7	2.6	1.4
Federal 222B.....	A. G. Thurman, Cedar Rapids.....	Exp.	*105.97	66.38	78.7	19.9	5.5	5.4	2.7	0.6
H-11.....	Holden F. S. and Exp. Farms, Williamsburg.....	Exp.	*105.77	68.82	80.4	21.8	12.7	1.8	2.7	0.8
W-145.....	Wilson Hybrids, Inc., Harlan.....	4,000	105.43	69.77	81.9	19.1	11.9	8.1	2.6	1.0
Epleys Early.....	Epley Brothers, Shell Rock.....	65	105.11	66.33	74.2	20.0	10.3	2.8	2.4	0.4
Pioneer X4510.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*104.91	69.01	78.6	20.5	14.5	3.9	2.8	1.1
Iowa Hybrid 4441.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*104.87	67.37	86.3	16.8	14.9	4.1	2.7	0.5
Mullins J-76.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*104.66	68.41	87.0	18.5	12.5	7.3	3.1	0.9
DeKalb 241.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	104.35	65.40	85.2	18.3	9.9	4.7	2.9	1.1
Mellowdent M93.....	J. N. Horlacher & Son, Storm Lake.....	200	104.27	66.39	80.6	21.1	12.4	1.8	2.6	0.6
PAG 299.....	J. M. Hunt & Son, Ackley.....	3,000	104.15	67.52	80.3	20.8	11.9	5.2	2.8	0.9
Iowaleath "AA".....	Iowaleath Co., Ames.....	Exp.	*104.10	65.47	78.7	23.1	5.1	4.9	3.1	2.7
Webster 396.....	Webster Hybrids, Inc., Fort Dodge.....	100	104.03	67.51	77.9	20.2	14.2	3.9	2.6	0.7
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.73	69.38	79.0	18.6	17.0	7.3	2.8	0.7
Bear OK-22.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*103.69	70.33	85.8	22.5	16.0	6.4	2.7	0.9
Iowaleath "S".....	Iowaleath Co., Ames.....	2,000	103.50	65.72	83.6	17.6	11.1	6.8	2.8	1.9
United U32A.....	United Hybrid Growers Assn., Shenandoah.....	1,600	102.88	66.93	79.4	19.9	15.8	4.3	2.8	0.9
Carlson C-N4.....	Carlson Hybrid Corn Co., Audubon.....	500	102.86	64.60	83.1	18.3	11.3	5.7	2.6	0.8
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.75	66.39	86.1	18.1	14.8	6.2	2.8	1.3
Iowa Hybrid 4387.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.62	66.21	83.9	18.3	15.0	6.2	2.6	0.1
214-H.....	Holden Hybrid Seed Farms, Tipton.....	1,100	102.21	67.70	86.2	20.2	16.7	6.6	2.6	0.8
United U36R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*102.07	68.75	82.1	21.0	20.6	4.3	2.9	0.9
Iowaleath "A".....	Iowaleath Co., Ames.....	2,200	101.93	66.22	85.2	19.7	12.1	9.1	2.7	1.3
United U39.....	United Hybrid Growers Assn., Shenandoah.....	3,800	101.82	64.07	79.4	21.5	10.3	5.1	2.9	1.1
111M.....	W. O. McCurdy & Sons, Fremont.....	1,250	101.75	63.03	73.9	21.7	10.9	2.7	2.6	0.1
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.49	62.19	77.9	19.6	8.4	5.8	2.7	1.1
Pioneer 381.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,120	101.46	65.47	87.0	18.4	15.2	7.2	2.8	0.6
Iowa Hybrid 4397.....	Donald D. Usher, Ottosen.....	250	101.38	64.25	79.3	20.8	14.6	3.1	2.6	0.7
Cargill N200.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	*101.35	66.25	82.9	21.7	16.6	4.4	2.6	1.0
Pride D56.....	Pride Hybrid Co., Dassel, Minn.....	10,000	101.23	66.62	77.2	18.7	13.3	11.4	2.7	1.4
96M.....	W. O. McCurdy & Sons, Fremont.....	1,500	101.13	62.91	79.3	20.5	12.2	3.9	2.6	0.4
Farmers 321.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,680	101.01	67.21	79.7	22.8	16.4	6.3	2.7	1.1
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	400	100.64	67.91	84.7	21.7	18.9	7.1	2.8	1.6
Funk G-30.....	Funk Bros. Seed Co., Belle Plaine.....	1,240	100.30	62.58	77.4	19.9	11.4	6.6	2.3	0.6
Iowa Hybrid 4308.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.16	62.05	82.3	18.2	14.1	4.9	2.6	0.5

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United U32.....	United Hybrid Growers Assn., Shenandoah.....	4,000	100.12	62.37	81.6	19.2	12.2	6.6	3.1	0.7
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.60	63.86	85.8	21.7	16.0	4.5	2.8	1.3
W-77.....	Wilson Hybrids, Inc., Harlan.....	300	99.60	64.48	83.7	19.0	18.9	5.7	2.5	0.8
Iowa Hybrid 4297.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.43	63.94	80.2	21.7	17.6	3.6	2.8	1.2
Mellowdent No. M85.....	Louis Quirin, Alta.....	163	99.36	65.07	84.4	18.3	21.3	5.9	2.6	0.7
Iowa Hybrid 4417.....	A. H. Werner, Dickens.....	396	99.24	63.40	78.4	17.3	18.3	7.0	2.7	0.1
Maygold 1064.....	Earl E. May Seed Co., Shenandoah.....	Exp.	* 99.18	59.79	73.7	18.8	12.4	4.0	2.6	0.4
Farmers 388.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.17	64.47	75.7	20.8	16.7	6.7	2.8	1.9
Iowa Hybrid 4417.....	Sar Seed Farms, Charles City.....	1,500	99.07	64.02	78.0	16.5	22.0	5.7	2.5	0.5
214-B.....	Holden Hybrid Seed Farms, Tipton.....	1,200	98.85	62.71	80.3	22.2	16.0	4.0	2.4	0.3
PAG 4897.....	Wilson-Rininger Corn Co., Sac City.....	3,600	98.66	65.47	79.8	20.9	21.6	5.3	2.7	1.6
Turner N14A.....	Turner Hybrid Seed Corn Co., Grand Junction.....	745	98.60	61.34	79.3	23.8	12.7	3.5	2.6	0.2
DeKalb 239.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.39	64.36	84.3	19.0	20.6	6.8	2.6	1.2
Funk G-5.....	Funk Bros. Seed Co., Belle Plaine.....	1,520	98.35	60.65	81.6	17.8	11.8	9.5	2.4	0.5
PAG 52.....	Black & Abbott Farms, Walnut, Ill.....	1,500	97.87	60.58	81.8	18.5	12.7	9.1	2.6	0.5
Funk 71112.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	* 97.87	63.77	82.2	18.4	14.9	13.5	2.7	0.6
Funk G-6.....	Funk Bros. Seed Co., Belle Plaine.....	20,000	97.84	59.89	79.8	17.6	12.7	8.7	2.3	0.2
Iowa Hybrid 4442.....	John Sand, Marcus.....	500	97.84	59.14	79.7	17.5	15.8	3.8	2.8	0.9
Pride B45A.....	Pride Hybrid Co., Dassel, Minn.....	2,000	97.50	60.40	81.2	17.9	10.0	13.0	2.4	0.1
Iowa Hybrid 4542.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 97.49	62.33	83.2	16.5	19.6	8.8	2.6	0.1
Turner T26.....	Turner Hybrid Seed Corn Co., Grand Junction.....	496	97.24	62.67	79.8	23.1	20.0	3.0	2.5	0.9
Cornelius 404C.....	Cornelius Hybrid Corn Co., Bellevue.....	600	97.19	61.77	77.8	21.3	17.9	5.2	2.6	0.5
Pioneer 330B.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,800	97.14	57.67	78.7	22.7	9.8	3.5	2.8	0.9
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.10	63.49	78.8	21.7	14.9	11.5	2.9	0.8
ACE 94.....	Eliason Seed Sales, West Liberty.....	400	97.00	59.93	81.5	21.9	10.7	8.6	2.8	0.5
Cornhusker 75.....	Cornhusker Hybrid Co., Fremont, Nebr.....	4,000	96.74	63.19	71.4	23.5	19.4	5.4	2.9	1.5
105H.....	Harpers Hardy Hybrids, Vinton.....	300	96.26	59.66	76.7	21.6	12.9	8.0	2.8	0.7
PAG 56.....	North Corn Belt Seed Growers, Naperville, Ill.....	400	95.95	59.22	77.8	17.3	11.5	13.8	2.6	0.3
Farmers 321A.....	Farmers Hybrid Seed Corn Co., Hampton.....	3,725	95.43	61.43	80.0	23.7	18.0	6.5	2.9	1.2
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.39	57.95	77.7	19.7	13.4	8.1	2.7	1.0
Funk G-1A.....	Funk Bros. Seed Co., Belle Plaine.....	16,000	95.21	56.69	75.6	16.6	14.6	8.0	2.1	0.5
Farmers 223.....	Farmers Hybrid Seed Corn Co., Hampton.....	Exp.	* 95.04	58.88	72.3	18.6	11.5	14.0	2.4	0.6
Cornhusker 84.....	Cornhusker Hybrid Co., Fremont, Nebr.....	150	94.85	62.81	76.8	24.9	21.0	6.9	3.1	0.8
United U26.....	United Hybrid Growers Assn., Shenandoah.....	3,200	94.81	60.89	81.7	15.9	18.6	14.3	2.7	0.7
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	93.67	60.04	80.0	21.1	24.5	4.2	2.4	1.4
Pioneer 355.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10,500	92.83	55.43	81.6	17.7	21.6	2.9	2.6	2.0
Funk G-4.....	Funk Bros. Seed Co., Belle Plaine.....	3,300	91.78	53.35	78.6	16.9	14.8	9.7	2.2	0.2
Pioneer 353.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,085	91.56	54.58	72.5	20.0	19.0	5.4	2.7	0.6
United U28.....	United Hybrid Growers Assn., Shenandoah.....	3,800	90.69	58.24	79.5	17.1	20.6	16.3	2.9	1.2
Indiana Hybrid 608C.....	Earl E. May Seed Co., Shenandoah.....	5,000	89.12	58.81	75.3	27.8	24.2	7.5	2.7	1.1
United U3.....	United Hybrid Growers Assn., Shenandoah.....	2,500	84.22	50.59	77.5	22.1	21.5	11.9	2.8	0.6
Average of all entries.....			63.74	80.3	20.0	14.6	6.4	2.7	0.9	

*Experimental entries.

**Differences in yield between any two entries of less than 4.93 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 10. NORTH CENTRAL SECTION 1948
Average performance of regular and experimental classes in districts 4, 5 and 6.

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
C258.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*107.16	110.65	88.4	15.7	1.1	5.5	3.5	2.9
Mullins J-54.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*105.66	107.93	90.6	16.9	2.6	3.9	3.7	1.1
HOW.....	Epley Brothers, Shell Rock.....	Exp.	*105.56	108.13	84.5	17.5	1.8	4.5	3.6	1.4
Bear OK-31.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*105.34	107.19	88.7	16.3	2.0	5.3	3.3	0.5
Pioneer X5646.....	Pioneer Hi-Bred Corn Co., Des Moines.....	50	105.02	104.96	88.3	14.8	2.3	3.8	3.0	1.4
Cornelius 405C.....	Cornelius Hybrid Corn Co., Bellevue.....	Exp.	*104.82	106.21	87.6	16.3	3.9	3.1	3.2	1.3
Cornhusker 148.....	Cornhusker Hybrid Corn Co., Fremont, Nebr.....	30,000	104.44	108.52	88.1	18.4	2.2	6.4	3.8	3.2
Iowa Hybrid 4060.....	Harpers Hardy Hybrids, Vinton.....	300	104.40	106.83	87.6	17.6	1.4	5.2	3.8	3.8
Webster 459.....	Webster Hybrids, Inc., Fort Dodge.....	1,000	103.99	105.08	87.9	18.2	1.8	3.4	2.9	2.3
Iowa Hybrid 4429.....	Malcolm H. Grieve, Pierson.....	Exp.	*103.86	101.50	84.9	16.0	0.4	2.5	3.0	1.3
Iowa Hybrid 4411.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.86	104.83	87.2	17.8	1.7	4.0	3.1	2.3
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.72	104.99	85.8	16.9	4.9	2.9	3.3	1.3
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.72	104.25	88.2	16.6	3.9	3.0	3.1	1.4
J-39-A.....	Jacobsen Hybrid Corn Co., Lake View.....	1,500	103.49	102.76	85.3	18.2	1.6	2.3	3.0	0.5
Tomahawk 61.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*103.39	102.18	87.9	17.0	1.5	2.7	3.5	1.5
Iowealth "AQ".....	Iowealth Co., Ames.....	6,000	102.95	104.74	81.9	17.1	2.0	6.2	3.6	3.9
H-22.....	Holden F. S. and Exp. Farms, Williamsburg.....	Exp.	*102.66	100.82	80.2	16.4	2.7	2.5	3.1	1.0
Iowa Hybrid 4450.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*102.66	102.12	81.6	16.6	3.0	4.0	3.1	1.1
W-245.....	Wilson Hybrids, Inc., Harlan.....	1,000	102.59	102.92	87.2	18.0	2.7	3.4	3.2	2.7
Iowa Hybrid 4249.....	Harpers Hardy Hybrids, Vinton.....	1,300	102.55	102.07	83.8	16.7	4.8	2.8	3.0	0.1
Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	102.55	100.12	83.2	17.1	2.0	1.9	3.3	0.6
Iowealth "AQA".....	Iowealth Co., Ames.....	Exp.	*102.40	102.91	81.9	17.7	2.4	5.0	3.3	1.8
Iowealth "BC4".....	Iowealth Co., Ames.....	2,000	102.36	100.93	84.0	17.1	1.9	3.4	3.4	1.5

Iowa Hybrid 4418.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*102.32	102.05	83.4	17.4	4.4	2.5	3.1	1.3
Iowa Hybrid 4297.....	Roy Fanselow, Dows.....	250	102.24	103.35	89.6	17.2	6.5	3.0	3.2	1.2
Iowa Hybrid 4297.....	Iowa State Hybrid Corn Co., Elkhart.....	450	102.07	101.45	82.2	17.1	4.6	2.8	3.3	0.5
DeKalb 458.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.97	102.15	83.8	17.1	4.6	4.0	3.0	1.1
United U41A.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*101.82	104.45	87.9	16.4	8.7	4.8	3.3	0.8
Webster 448.....	Webster Hybrids, Inc., Fort Dodge.....	800	101.54	99.39	85.0	18.5	0.7	3.4	3.1	1.1
Joslin Special 606A.....	Joslin Seed Farms, Holstein.....	500	101.49	100.11	87.3	18.2	2.2	3.6	3.0	0.9
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	101.44	99.29	90.1	17.7	1.7	2.6	3.4	2.7
Pioneer 350A.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	1,038	101.41	99.84	85.1	16.8	4.7	2.2	3.2	1.3
PAG 270.....	Associated Pfister Growers, Davenport.....	2,000	101.30	99.97	82.9	16.3	3.8	4.2	3.6	1.5
Iowa Hybrid 4345.....	Iowa State Hybrid Corn Co., Elkhart.....	800	101.22	98.59	82.3	17.5	1.5	3.1	3.1	1.8
Cornhusker 85.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2,100	101.19	101.09	79.4	18.3	4.9	2.7	3.4	2.0
55-H.....	Holden Hybrid Seed Farms, Tipton.....	3,500	101.15	98.93	85.6	17.3	3.1	3.0	3.1	0.5
Pioneer 350A.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1,575	100.86	97.99	83.2	16.2	3.2	3.2	3.3	1.2
PAG 366B.....	Black & Abbott Farms, Walnut, Ill.....	3,075	100.75	101.59	86.6	17.1	5.9	5.1	3.1	1.9
PAG 277.....	Black & Abbott Farms, Walnut, Ill.....	1,035	100.73	96.67	79.4	16.3	1.4	3.2	3.1	1.3
United U41.....	United Hybrid Growers Assn., Shenandoah.....	8,000	100.72	99.33	84.2	17.1	3.0	4.5	3.5	2.1
PAG 253.....	North Corn Belt Seed Growers, Naperville, Ill.....	1,000	100.68	97.14	84.7	15.9	4.1	2.2	3.1	0.5
Iowa Hybrid 4397.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.56	97.89	83.6	16.6	4.9	2.1	2.9	0.5
PAG 282.....	Black & Abbott Farms, Walnut, Ill.....	600	100.52	98.13	83.6	16.4	3.8	3.7	3.2	1.1
887.....	Brookfield Seed Co., Hector, Minn.....	500	100.51	95.82	82.9	16.2	2.3	1.9	3.0	1.0
Beeghly 150.....	Earl E. May Seed Co., Shenandoah.....	1,200	100.48	97.13	82.8	16.3	2.2	4.3	3.0	0.5
Mellowdent No. 94.....	J. N. Horlacher & Son, Storm Lake.....	1,200	100.48	97.13	79.4	16.8	3.6	2.2	3.0	0.6
Allee Hybrid 454.....	Geo. M. Allee, Newell.....	Exp.	*100.47	102.47	90.7	17.3	7.2	5.8	3.9	2.1
Iowa Hybrid 4430.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.30	97.97	81.4	15.7	7.1	1.9	3.0	0.4
I 104A.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	*100.12	96.41	79.4	17.7	2.4	2.1	3.0	1.3
Maygold 1065.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*100.08	98.00	81.4	15.8	7.5	2.1	2.7	0.6
DeKalb 609.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.99	98.68	82.5	16.3	4.6	5.8	3.3	0.4
Funk 68038.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	* 99.94	96.17	83.7	16.4	3.2	2.9	3.0	1.3
Iowa Hybrid 4412.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 99.85	97.27	79.1	17.3	4.1	3.7	3.3	0.0
Pioneer X4741.....	Pioneer Hi-Bred Corn Co., Des Moines.....	675	99.56	96.38	85.8	15.1	3.4	5.2	3.3	2.3
Pioneer 344.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,963	99.48	99.32	81.1	17.0	8.8	3.3	3.2	0.7

*Experimental entries.

**Differences in yield between any two entries of less than 6.26 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 10. NORTH CENTRAL SECTION 1948 (Continued)

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Iowa Hybrid 4297.....	Harpers Hardy Hybrids, Vinton.....	750	99.48	95.91	81.1	17.1	2.7	4.0	3.1	0.6
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.45	98.76	86.2	15.7	7.9	5.0	3.0	0.4
34-H.....	Holden Hybrid Seed Farms, Tipton.....	1,100	99.40	95.02	88.9	16.8	2.5	2.9	3.1	1.6
Pioneer 344.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,450	99.37	97.14	82.2	17.4	5.4	3.1	3.3	0.8
81.....	Brookfield Seed Co., Hector, Minn.....	20,000	99.29	97.90	81.2	16.7	4.6	5.3	3.1	2.6
Farmers 427A.....	Farmers Hybrid Seed Corn Co., Hampton.....	12,500	99.29	94.79	82.6	16.8	2.7	3.2	3.0	0.4
Funk G-29.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.27	95.52	83.8	18.4	1.2	3.9	3.0	1.1
Turner T46.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,125	99.17	95.89	86.4	16.9	2.3	5.2	3.2	1.1
600.....	W. O. McCurdy & Sons, Fremont.....	1,000	99.16	96.73	83.4	16.9	5.5	3.6	2.9	0.8
Funk G-28.....	Funk Bros. Seed Co., Belle Plaine.....	1,750	99.15	96.30	81.8	16.4	3.3	5.6	2.9	1.1
Federal 205A.....	A. G. Thurman, Cedar Rapids.....	Exp.	* 99.11	96.90	85.8	16.3	7.2	2.8	3.1	1.1
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.95	97.06	81.1	18.2	2.6	5.2	3.5	2.9
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.93	97.61	80.7	17.4	2.6	7.4	3.3	1.9
Webster 402.....	Webster Hybrids, Inc., Fort Dodge.....	2,400	98.91	95.71	83.0	17.4	3.8	3.8	2.9	1.2
Maygold 89.....	Earl E. May Seed Co., Shenandoah.....	1,300	98.71	94.71	83.7	17.0	3.6	3.3	2.9	1.6
Pride D66.....	Pride Hybrid Co., Dassel, Minn.....	12,000	98.71	98.07	79.2	16.3	10.5	2.5	3.5	1.1
Pioneer 343.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,006	98.54	95.73	87.6	16.7	5.1	4.2	3.1	1.5
United U47.....	United Hybrid Growers Assn., Shenandoah.....	15,000	98.43	94.58	81.0	16.7	3.7	3.4	3.5	3.0
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.41	96.31	80.1	17.2	6.7	3.3	3.1	1.6
Tri-State-Forty-seven.....	Ralph C. Watland & Sons, Sioux City.....	650	98.36	94.65	81.7	16.8	5.8	2.2	3.0	1.6
Mellowdent No. 95.....	Louis Quirin, Alta.....	640	98.08	93.10	77.1	17.2	3.5	2.7	3.0	1.2
United U42.....	United Hybrid Growers Assn., Shenandoah.....	4,800	97.99	95.19	80.9	16.1	5.4	4.4	3.3	3.7
Composite Single-Cross.....	Miles T. Roberts, Villisca.....	Exp.	* 97.90	102.58	90.1	17.4	10.7	9.4	3.7	3.8

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Iowa Hybrid 4316.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.86	96.13	82.6	17.1	5.8	5.5	3.1	2.0
Iowa Hybrid 306.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.76	95.87	82.9	17.5	5.9	4.4	3.3	3.0
Farmers 322.....	Farmers Hybrid Seed Corn Co., Hampton.....	5,500	97.57	95.34	81.1	18.7	5.3	4.0	3.0	1.8
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.41	97.16	79.1	18.2	8.6	3.9	3.3	3.2
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.36	89.53	79.5	15.0	3.7	1.8	3.1	0.7
112M.....	W. O. McCurdy & Sons, Fremont.....	3,000	97.34	93.65	82.9	16.9	5.4	4.2	3.1	1.5
W-111.....	Wilson Hybrids, Inc., Harlan.....	1,000	97.30	90.85	83.0	16.9	2.7	3.0	3.0	0.7
W-200.....	Wilson Hybrids, Inc., Harlan.....	4,000	97.13	96.14	85.6	16.2	7.5	6.1	3.3	4.0
United U36.....	United Hybrid Growers Assn., Shenandoah.....	3,100	96.98	88.66	78.3	15.7	1.1	3.1	2.9	1.3
PAG 35-2965.....	Wilson-Rininger Corn Co., Sac City.....	Exp.	* 96.94	92.22	82.8	17.7	3.8	3.4	3.0	2.6
99B.....	Eliason Seed Sales, West Liberty.....	75	96.78	89.35	77.7	16.4	3.6	1.7	3.1	1.0
Pioneer 373.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,150	96.65	91.61	83.8	14.6	4.5	6.9	3.1	0.5
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.50	92.24	83.6	17.2	5.2	4.0	3.3	2.3
Cargill N250.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 96.35	93.69	86.8	17.3	10.2	2.3	3.1	0.8
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.87	94.18	81.2	15.6	11.6	5.1	3.5	0.6
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.61	91.42	83.7	17.4	6.2	3.7	3.3	3.2
Exp. W-H.....	J. M. Hunt & Son, Ackley.....	300	95.27	89.65	84.1	14.3	7.9	4.6	3.1	1.3
Iowax 5.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 95.21	90.16	80.8	15.7	10.3	1.9	2.9	0.9
United U30.....	United Hybrid Growers Assn., Shenandoah.....	3,500	94.96	89.17	87.9	15.0	2.9	8.6	3.3	2.3
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	93.73	91.92	84.7	17.2	6.8	8.9	3.5	5.3
Iowax 4.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 92.65	83.61	75.8	16.4	3.9	4.6	3.4	2.0
United U4.....	United Hybrid Growers Assn., Shenandoah.....	3,700	86.44	79.13	79.2	16.1	8.8	11.2	3.6	3.7
Average of all entries.....			98.03	83.7	16.8	4.3	3.9	3.2	1.6	

*Experimental entries.

**Differences in yield between any two entries of less than 6.26 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 11. SOUTH CENTRAL SECTION 1948
 -Average performance of regular and experimental classes in districts 7, 8 and 9.

Variety, name and address of entrant, and bushels produced in 1947			Performance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Tomahawk 80.....	Thompson Hybrid Corn Co., Inc, Belmond.....	Exp.	*107.72	105.47	81.7	21.7	0.5	2.8	3.2	0.2
C277.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*107.21	107.91	90.2	23.3	2.9	3.6	3.9	0.9
H-3.....	Holden F. S. and Exp. Farms, Williamsburg.....	50	107.17	104.82	78.5	21.5	1.3	2.8	3.9	0.5
307H.....	Harpers Hardy Hybrids, Vinton.....	300	105.66	101.05	79.6	19.9	1.7	2.8	3.3	0.4
Corn King 118A.....	Malcolm H. Grieve, Pierson.....	Exp.	*105.57	101.79	82.4	20.6	1.1	3.9	3.2	0.7
Iowa Hybrid 4320.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.97	106.12	83.5	24.9	4.5	3.8	4.0	1.6
Iowa Hybrid 4383.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.56	102.93	79.4	22.3	6.3	1.8	3.7	0.4
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	760	104.30	104.00	87.3	25.1	3.0	4.1	3.5	0.6
Pioneer 335.....	Pioneer Hi-Bred Corn Co., Des Moines.....	12,450	103.88	103.84	87.6	21.9	8.6	3.4	3.3	0.5
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	103.72	99.93	79.4	21.4	3.6	3.0	3.9	0.8
United 52R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*103.70	101.22	82.2	22.5	5.1	2.5	3.8	0.7
Cornelius C66.....	Cornelius Hybrid Corn Co., Bellevue.....	100	103.29	98.90	81.1	22.3	2.4	3.2	3.3	0.1
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	450	103.27	100.26	82.1	23.3	3.9	2.4	3.9	0.8
PAG 281.....	J. M. Hunt & Son, Ackley.....	300	103.25	97.80	77.6	20.3	3.6	2.6	3.3	0.4
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	102.93	99.84	84.4	22.7	4.5	3.0	3.8	0.7
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	102.84	100.98	81.3	23.0	7.4	2.1	3.9	0.1
Dockendorff 52.....	Wm. Dockendorff & Sons, Danville.....	610	102.63	100.79	83.5	24.2	6.1	1.8	3.8	1.2
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,272	102.58	100.29	80.0	23.3	6.5	2.2	3.8	0.3
PAG 392.....	Pfister Associated Growers, Inc., Monroe.....	1,100	102.54	98.13	82.1	20.5	2.7	5.8	3.7	0.8
Pioneer 339.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.50	96.63	78.9	22.1	2.5	2.0	3.5	0.5
Indiana Hybrid 620C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.29	97.44	81.1	22.8	3.8	1.6	3.1	1.0
Iowa Hybrid 4452.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.28	99.26	82.2	22.9	4.4	3.7	3.8	1.0
Indiana Hybrid 620A.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.21	96.59	76.8	20.7	4.9	2.2	3.2	0.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.18	98.96	81.0	24.0	1.9	4.5	4.1	1.5
77-H.....	Holden Hybrid Seed Farms, Tipton.....	800	102.13	94.72	78.4	20.7	2.6	1.5	3.6	0.6
825.....	W. O. McCurdy & Sons, Fremont.....	800	101.89	95.98	79.4	22.1	2.5	2.8	3.4	0.4
Bear OK-66.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*101.49	98.86	82.5	25.7	2.3	4.6	3.8	0.5
Iowa Hybrid 4423.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.40	97.87	83.8	24.3	2.3	4.1	3.7	2.1
Funk G-77.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*101.20	95.15	79.4	21.3	5.3	1.5	3.4	0.9
Cargill N300.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	*101.10	97.86	82.4	24.0	6.1	2.3	3.6	0.7
PAG 5897.....	Associated Pfister Growers, Davenport.....	5,000	101.01	102.40	86.8	21.8	14.5	3.8	3.4	0.8
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	26,000	100.95	96.71	81.6	21.8	7.0	2.4	3.5	0.9
PAG 170.....	Walden Farm, Keota.....	800	100.88	99.86	77.2	21.3	12.4	2.8	3.7	0.8
Pioneer 333.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.70	95.09	84.9	21.7	2.2	5.9	3.3	0.2
Webster 480.....	Webster Hybrids, Inc., Fort Dodge.....	200	100.70	97.50	82.8	23.8	7.1	2.0	3.6	0.8
Maygold 200.....	Earl E. May Seed Co., Shenandoah.....	85	100.50	94.15	80.3	19.9	6.6	2.7	3.2	0.4
Ohio Hybrid C92.....	Lincoln Seed Co., Pacific Junction.....	2,000	100.46	96.80	81.8	23.1	5.1	4.6	3.8	0.5
Iowa Hybrid 4385.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.42	94.42	78.9	23.3	4.2	1.8	3.8	0.1
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	800	100.21	96.66	79.3	24.1	3.9	5.0	4.1	0.9
United U50.....	United Hybrid Growers Assn., Shenandoah.....	3,100	100.21	93.51	80.7	21.1	5.3	2.3	3.5	0.6

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Maygold 59.....	Earl E. May Seed Co., Shenandoah.....	2,000	100.20	94.24	76.2	21.6	5.2	2.8	3.5	0.9
Funk G-169.....	Funk Bros. Seed Co., Belle Plaine.....	6,329	100.05	95.88	80.9	23.0	2.8	6.7	3.9	0.9
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.05	94.15	79.7	22.6	3.3	3.7	3.5	1.2
117M.....	W. O. McCurdy & Sons, Fremont.....	1,850	99.94	93.59	76.8	23.1	3.2	2.9	3.5	0.6
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.91	92.66	75.7	20.2	4.8	2.9	3.6	1.6
Pioneer X4190.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	* 99.85	95.58	77.9	21.5	7.7	3.5	3.3	1.2
United U52.....	United Hybrid Growers Assn., Shenandoah.....	1,500	99.42	92.71	79.2	22.9	3.8	2.6	3.2	0.9
7581 x 7580.....	Genetics Section, Ames.....	Exp.	* 99.31	95.55	83.3	25.2	4.3	3.9	3.6	1.7
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.29	92.32	84.9	20.2	5.3	3.9	3.1	1.1
Pioneer 334.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,850	99.26	95.19	88.7	22.7	5.1	5.6	3.5	1.6
W-310.....	Wilson Hybrids, Inc., Harlan.....	Exp.	* 98.78	93.52	82.6	23.5	6.7	2.5	3.2	0.3
Iowa Hybrid 4412.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 98.57	90.07	73.9	21.9	3.1	3.1	3.2	0.4
W-205A.....	Wilson Hybrids, Inc., Harlan.....	4,000	98.54	94.86	79.1	22.9	9.8	2.7	3.4	0.8
Iowa Hybrid 4435.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.43	92.71	83.1	21.0	8.6	3.0	3.1	1.0
Funk 4447A.....	Funk Bros. Seed Co., Belle Plaine.....	1,700	98.41	90.43	76.6	22.5	4.8	1.6	3.5	0.8
Pioneer 331.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	4,173	98.29	92.42	83.8	20.8	9.7	2.0	3.5	1.2
Webster 436.....	Webster Hybrids, Inc., Fort Dodge.....	1,800	98.22	92.47	80.1	23.3	5.4	3.8	3.4	0.8
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.01	96.74	79.3	23.0	14.8	2.0	3.4	1.2
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2,600	97.77	91.66	82.7	26.7	2.4	3.2	4.0	0.4
I 111.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	* 97.60	94.16	79.8	24.2	10.7	2.2	3.3	0.5
990.....	Brookfield Seed Co., Hector, Minn.....	3,000	97.31	91.67	81.0	26.0	6.1	1.7	3.8	0.3
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	1,975	97.30	93.37	78.2	23.7	8.8	4.0	3.7	1.3
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.02	89.48	76.5	21.0	7.8	2.8	3.2	1.5
Iowearth "25".....	Iowearth Co., Ames.....	12,000	97.01	94.32	77.9	24.9	10.9	2.9	3.8	1.1
Pinster 280.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.99	92.93	76.2	22.3	12.8	2.3	3.3	0.4
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.71	85.00	77.8	19.3	5.2	1.6	3.2	0.5
ACE 395E.....	Eliason Seed Sales, West Liberty.....	60	96.68	87.87	80.8	21.0	7.0	2.2	3.1	1.0
7577 x 7578.....	Genetics Section, Ames.....	Exp.	* 96.68	91.24	86.1	28.6	1.9	4.0	3.7	0.4
Iowearth "BE".....	Iowearth Co., Ames.....	Exp.	* 96.58	91.67	75.9	22.8	10.3	3.2	4.0	0.9
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.52	92.02	81.2	21.0	13.7	2.5	3.2	1.2
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.20	93.73	77.4	23.2	14.8	2.4	3.2	1.3
Farmers 421.....	Farmers Hybrid Seed Corn Co., Hampton.....	3,750	95.88	90.90	78.4	23.9	10.9	2.5	3.2	0.3
United U40.....	United Hybrid Growers Assn., Shenandoah.....	3,250	95.67	90.05	79.3	20.0	15.1	2.1	3.3	0.4
United U57.....	United Hybrid Growers Assn., Shenandoah.....	3,050	95.47	86.55	80.5	23.2	5.3	3.1	3.5	0.6
215-H.....	Holden Hybrid Seed Farms, Tipton.....	3,000	95.23	85.85	72.9	21.1	8.3	2.4	3.0	0.1
Farmers 488.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.90	86.91	75.3	23.0	9.0	2.1	3.3	0.3
United U49.....	United Hybrid Growers Assn., Shenandoah.....	4,500	94.83	89.08	79.3	24.8	10.0	2.5	3.3	0.5
PAG 35-2966.....	Wilson-Rininger Corn Co., Sac City.....	Exp.	* 94.63	86.66	83.2	18.2	14.6	2.2	2.9	0.9
Iowa Hybrid 4284.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.30	88.07	74.4	23.4	9.7	4.4	3.1	0.6
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	93.23	84.80	73.4	19.6	10.4	5.6	3.2	1.9
United U5.....	United Hybrid Growers Assn., Shenandoah.....	605	92.63	85.51	79.4	22.2	7.5	7.7	3.7	3.5
Average of all entries.....				95.32	80.4	22.5	6.2	3.1	3.5	0.8

*Experimental entries.

**Differences in yield between any two entries of less than 5.85 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 12. SOUTHERN SECTION 1948
Average performance of regular and experimental classes in districts 11 and 12.

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
218-H.....	Holden Hybrid Seed Farms, Tipton.....	100	109.44	114.23	86.4	19.2	3.4	5.8	3.5	1.3
Tomahawk 88.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*105.64	115.59	89.4	19.5	8.2	12.6	3.7	1.7
Meyer 591.....	Winterest Hybrid Co., Winterest.....	Exp.	*105.50	111.68	88.8	17.9	3.1	14.4	3.3	2.0
U. S. Hybrid 13.....	J. H. Isenhardt, Batavia.....	2,500	104.82	111.62	87.4	19.9	5.3	12.6	3.8	0.6
United U59.....	United Hybrid Growers Assn., Shenandoah.....	4,600	104.74	106.22	84.2	20.6	3.0	7.1	3.6	0.8
DeKalb 847.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	104.69	106.82	83.9	19.1	4.6	7.8	3.6	1.2
United U65.....	United Hybrid Growers Assn., Shenandoah.....	3,500	104.26	110.92	89.4	20.6	6.4	11.0	3.8	1.4
United U57R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*104.11	106.21	86.0	20.5	4.7	7.3	3.5	0.7
PAG 390.....	Walden Farm, Keota.....	650	104.02	111.94	90.0	17.9	13.3	8.9	3.4	1.2
W-350.....	Wilson Hybrids, Inc., Harlan.....	1,500	103.97	105.68	88.3	19.3	8.3	4.7	3.6	0.2
Cornhusker 63.....	Cornhusker Hybrid Co., Fremont, Nebr.....	1,100	103.48	107.38	87.3	20.1	5.6	9.9	3.5	1.0
124M.....	W. O. McCurdy & Sons, Fremont.....	3,500	103.37	107.24	86.5	19.0	3.4	13.2	3.6	1.4
Funk 5558.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*103.30	111.27	89.6	20.1	9.5	11.6	3.3	1.1
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	2,985	103.28	109.11	87.1	19.9	4.0	14.0	3.8	2.2
Ohio Hybrid C92.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.20	110.46	86.1	19.0	12.6	9.0	3.7	0.7
840.....	W. O. McCurdy & Sons, Fremont.....	500	103.07	102.35	81.4	18.1	5.6	6.5	3.5	0.7
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1,581	102.48	104.46	81.5	19.5	4.6	10.1	3.8	1.7
123M.....	W. O. McCurdy & Sons, Fremont.....	2,000	102.38	109.59	85.8	20.2	5.5	15.5	3.9	1.6
Illinois Hybrid 201.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.36	106.27	80.8	18.8	5.3	12.9	3.8	1.4
H-24.....	Holden F. S. & Exp. Farms, Williamsburg.....	Exp.	*102.05	105.02	83.3	18.9	10.7	7.0	3.7	0.5
124-2.....	W. O. McCurdy & Sons, Fremont.....	1,000	101.99	101.01	85.8	18.9	6.6	5.8	3.6	0.7
McAllister 73.....	McAllister Seed Farms, Mt. Union.....	3,100	101.86	102.66	84.7	19.2	7.7	7.1	3.6	0.5
Pioneer 336.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.80	104.51	85.1	19.1	5.9	11.8	3.5	0.2
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3,000	101.69	104.40	82.1	20.2	3.9	12.0	3.9	2.0
Pioneer X4117.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*101.63	106.19	90.3	19.5	5.9	13.9	3.3	0.6
Illinois Hybrid 21.....	McAllister Seed Farms, Mt. Union.....	500	101.42	102.64	80.0	19.7	8.5	6.6	3.8	1.2
Funk G-99.....	Funk Bros. Seed Co., Belle Plaine.....	650	101.35	110.32	80.6	22.2	10.7	12.6	3.8	0.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.93	104.45	82.1	20.7	4.9	12.9	3.7	1.4
United U67.....	United Hybrid Growers Assn., Shenandoah.....	3,050	100.77	103.56	79.7	21.2	7.0	9.6	3.8	1.2
W-300.....	Wilson Hybrids, Inc., Harlan.....	10,000	100.75	102.51	86.5	18.8	10.3	7.4	3.6	1.3
Pioneer 335.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	8,008	100.55	105.49	85.1	18.1	13.5	9.8	3.3	0.2
PAG 3-E-1.....	Pfister Associated Growers, Inc., Monroe.....	700	100.21	105.46	88.5	19.3	14.8	7.9	3.1	1.1
I 113.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	* 99.96	104.68	87.1	21.7	7.7	12.1	3.5	1.1

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Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.89	107.59	87.8	20.2	12.2	13.1	3.6	1.3
6492 x 6493.....	Genetics Section, Ames.....	Exp.	* 99.88	100.99	85.9	20.4	1.2	15.2	3.3	1.2
Maygold 59A.....	Earl E. May Seed Co., Shenandoah.....	21,000	99.84	102.42	82.9	18.6	9.9	10.7	3.7	0.3
U. S. Hybrid 13.....	McAllister Seed Farms, Mt. Union.....	3,300	99.79	104.10	87.1	20.8	6.2	13.7	3.7	2.2
DeKalb 800 A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.71	104.70	84.9	19.8	9.7	12.8	3.6	1.2
Cargill N350.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 99.52	103.53	82.9	19.6	12.6	9.2	3.4	0.7
Pioneer 302.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	338	99.19	102.88	88.3	24.1	4.7	12.3	3.8	1.3
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	425	99.18	102.97	87.3	20.0	6.4	14.8	3.6	1.6
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.16	93.99	88.1	17.5	4.4	7.7	3.3	1.0
Bear OK-40.....	Bear Hybrids Corn Co., Decatur, Ill.....	4,000	99.05	99.79	80.6	18.9	6.7	12.2	3.5	0.3
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,300	99.00	102.36	86.9	19.1	11.7	10.4	3.5	1.0
United U68.....	United Hybrid Growers Assn., Shenandoah.....	3,020	98.73	99.98	81.3	22.2	6.5	9.9	3.9	1.0
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,850	98.57	100.85	83.5	18.4	12.2	9.6	3.4	1.3
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.49	98.26	84.0	18.9	6.8	10.9	3.4	2.2
Funk G-94.....	Funk Bros. Seed Co., Belle Plaine.....	3,670	98.38	96.65	85.4	19.9	4.2	11.4	3.5	0.3
Pfister 1897.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.04	101.40	82.4	19.7	14.7	7.9	3.7	1.4
McAllister 9.....	McAllister Seed Farms, Mt. Union.....	2,000	97.90	98.22	87.3	18.9	9.7	9.9	3.1	1.2
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.60	96.07	83.9	19.3	7.8	9.4	3.4	1.2
ACE 193.....	Eliason Seed Sales, West Liberty.....	620	96.91	93.95	80.4	20.5	5.5	9.5	3.8	1.2
Maygold 99A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.79	91.42	82.6	18.4	4.4	10.1	3.1	0.5
U. S. Hybrid 13.....	Earl E. May Seed Co., Shenandoah.....	4,000	96.06	95.97	81.7	20.5	6.6	12.8	3.8	2.7
McAllister 99.....	McAllister Seed Farms, Mt. Union.....	1,500	95.74	89.80	78.2	17.9	11.4	4.4	3.1	0.2
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,550	95.38	92.21	75.4	20.4	6.6	10.3	3.8	1.3
ACE 273.....	Eliason Seed Sales, West Liberty.....	Exp.	* 94.28	94.91	78.6	21.5	9.2	13.1	4.0	1.6
Crows 607.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.27	96.03	79.7	19.1	13.1	13.8	3.4	0.2
Kansas 2275 Waxy.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 93.84	103.26	82.8	24.7	20.5	10.6	4.1	2.2
Pioneer 331.....	Pioneer Hi-Bred Corn Co., Des Moines.....	6,300	92.99	84.57	78.9	17.7	3.7	12.3	3.3	1.4
U. S. 13 Waxy.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 92.89	93.65	82.5	19.4	6.6	19.7	3.9	2.2
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	14,858	92.68	98.81	84.9	21.0	17.2	15.4	3.7	1.0
United U72.....	United Hybrid Growers Assn., Shenandoah.....	605	92.08	90.53	77.9	29.5	8.2	6.2	4.8	1.3
United U6.....	United Hybrid Growers Assn., Shenandoah.....	1,500	89.19	84.92	79.7	27.4	11.9	5.6	3.6	0.2
Average of all entries.....				102.48	84.3	20.0	7.9	10.6	3.6	1.1

*Experimental entries.

**Differences in yield between any two entries of less than 7.67 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 13. DISTRICT ONE
Results of regular and experimental classes from test plot located near
Sheldon in Sioux County, 1948.

Variety, name and address of entrant, and bushels produced in 1947			Performance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Iowearth "AA"	Iowearth Co., Ames	Exp.	*115.85	89.93	77.0	22.2	16.0	3.9	3.8	1.3
Pioneer 349	Pioneer Hi-Bred Corn Co., Des Moines	2,675	113.96	93.04	87.8	20.8	26.6	1.9	3.0	1.0
Federal 222B	A. G. Thurman, Cedar Rapids	Exp.	*113.16	83.47	77.8	22.2	11.1	6.4	3.0	1.1
Pioneer 321	Pioneer Hi-Bred Corn Co., Des Moines	4,675	111.73	83.25	78.6	21.1	17.3	3.5	3.0	1.1
Tomahawk 42	Thompson Hybrid Corn Co., Inc., Belmond	Exp.	*110.85	82.31	89.7	19.9	16.4	5.6	3.5	2.2
Iowearth "S"	Iowearth Co., Ames	2,000	110.28	87.33	91.7	19.2	27.0	3.0	3.2	0.9
PAG 299	J. M. Hunt & Son, Ackley	3,000	110.14	89.15	80.8	20.1	29.2	2.8	3.2	0.3
Mellowdent M93	J. N. Horlacher & Son, Storm Lake	200	109.61	90.46	82.5	22.2	31.0	2.0	3.0	0.3
Mullins J-76	Mullins Hybrid Corn Co., Britt	Exp.	*109.30	88.31	90.6	18.3	31.9	1.8	3.5	0.9
Pioneer X4510	Pioneer Hi-Bred Corn Co., Des Moines	Exp.	*108.71	91.38	87.8	19.4	34.8	2.9	3.2	1.3
DeKalb 241	Iowa Corn & Small Grain Growers' Assn., Ames	***	108.19	81.91	86.9	19.6	20.1	7.0	3.0	1.3
C217	Clarke Hybrid Corn Co., Conrad	Exp.	*107.59	82.86	86.7	19.4	25.0	4.8	3.2	0.6
W-145	Wilson Hybrids, Inc., Harlan	4,000	106.93	88.81	88.3	19.2	29.6	8.8	3.0	0.6
Pride B45A	Pride Hybrid Co., Dassel, Minn.	2,000	106.57	79.99	88.6	19.0	25.4	3.5	2.3	0.0
DeKalb 404A	Iowa Corn & Small Grain Growers' Assn., Ames	***	105.95	74.11	74.3	20.8	18.4	3.1	3.0	0.5
Pioneer 352	Pioneer Hi-Bred Corn Co., Des Moines	2,150	105.54	87.75	82.2	22.0	31.8	6.1	3.0	0.3
Pioneer 381	Pioneer Hi-Bred Corn Co., Des Moines	4,120	105.45	84.96	88.3	19.0	31.1	5.7	3.0	0.6
Carlson C-N4	Carlson Hybrid Corn Co., Audubon	500	104.88	81.28	90.0	18.8	28.4	5.3	2.8	0.6
105H	Harpers Hardy Hybrids, Vinton	300	104.63	84.36	76.4	22.2	30.9	4.4	3.2	0.7
Pioneer 340	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.63	86.18	88.1	22.8	32.5	4.7	3.0	0.0
Iowa Hybrid 4397	Donald D. Usher, Ottosen	250	104.56	87.27	85.0	21.7	36.3	2.9	3.0	1.0
Pioneer 352	Garst & Thomas Hybrid Corn Co., Coon Rapids	336	104.41	80.16	81.7	23.8	26.1	2.9	2.8	2.5
Iowearth "A"	Iowearth Co., Ames	2,200	104.29	83.58	87.8	21.4	32.0	3.5	3.0	1.3
United U32	United Hybrid Growers Assn., Shenandoah	4,000	104.28	83.79	86.1	18.9	33.9	3.9	3.2	0.7
Bear OK-22	Bear Hybrids Corn Co., Decatur, Ill.	Exp.	*103.55	89.70	90.0	23.2	36.7	6.2	2.8	1.2
Cargill N200	Cargill, Inc., Minneapolis, Minn.	Exp.	*103.38	88.60	85.8	21.8	39.5	3.2	3.0	1.9
Webster 396	Webster Hybrids Inc., Fort Dodge	100	103.28	83.71	82.2	21.4	32.8	5.1	3.0	0.3
H-11	Holden F. S. and Exp. Farms, Williamsburg	Exp.	*102.80	84.20	81.3	23.1	36.5	1.2	3.0	1.6
United U32A	United Hybrid Growers Assn., Shenandoah	1,600	102.70	85.91	82.5	20.8	39.7	2.0	3.0	1.4
DeKalb 240	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.69	82.43	87.5	20.9	32.1	5.4	3.0	1.6
Iowa Hybrid 4308	Iowa Agr. Exp. Assn., Ames	Comp.	102.67	81.50	85.0	19.2	33.7	4.3	3.0	0.7
United U39	United Hybrid Growers Assn., Shenandoah	3,800	102.00	78.57	81.4	22.5	28.0	5.5	3.0	0.0
Iowa Hybrid 4316	Malcolm H. Grieve, Pierson	400	101.82	90.86	89.4	21.7	42.2	6.5	3.0	1.2
Epleys Early	Epley Brothers, Shell Rock	65	101.73	83.82	70.4	20.7	36.7	4.7	3.0	0.6
Funk G-30	Funk Bros. Seed Co., Belle Plaine	1,240	101.71	79.38	79.7	20.8	32.6	3.4	2.4	0.8
Farmers 223	Farmers Hybrid Seed Corn Co., Hampton	Exp.	*101.67	75.15	75.6	20.8	28.7	2.6	2.7	0.0
Funk G-5	Funk Bros. Seed Co., Belle Plaine	1,520	101.63	77.89	80.3	19.0	32.5	3.1	2.8	1.0
214-B	Holden Hybrid Seed Farms, Tipton	1,200	101.50	82.19	85.6	21.8	35.7	3.6	2.7	0.0
Eliason Seed Sales, West Liberty		400	101.19	76.88	84.7	23.1	27.5	4.9	3.2	0.3
W. O. McCurdy & Sons, Fremont		1,250	101.15	80.90	84.2	22.2	35.2	3.0	3.0	0.0

Funk G-5	Funk Bros. Seed Co., Belle Plaine	1,520	101.63	77.89	80.3	19.0	32.5	3.1	2.8	1.0
214-B	Holden Hybrid Seed Farms, Tipton	1,200	101.50	82.19	85.6	21.8	35.7	3.6	2.7	0.0
ACE 94	Eliason Seed Sales, West Liberty	400	101.19	76.88	84.7	23.1	27.5	4.9	3.2	0.3
111M	W. O. McCurdy & Sons, Fremont	1,250	101.15	80.90	84.2	22.2	35.2	3.0	3.0	0.0

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PAG 56	North Corn Belt Seed Growers, Naperville, Ill.	400	101.04	73.77	83.9	17.7	27.5	5.6	3.0	0.0
Pride D56	Pride Hybrid Co., Dassel, Minn.	10,000	100.85	84.00	80.7	19.2	39.7	5.0	3.0	0.0
Turner N14A	Turner Hybrid Seed Corn Co., Grand Junction	745	99.95	80.91	82.5	24.9	35.4	3.0	2.8	0.3
96M	W. O. McCurdy & Sons, Fremont	1,500	99.89	77.44	80.6	22.5	33.1	3.1	3.0	0.0
Iowa Hybrid 4441	U. S. D. A. & Farm Crops, Ames	Exp.	* 99.73	80.04	84.4	16.8	39.8	4.0	3.0	0.3
Iowa Hybrid 4387	Iowa Agr. Exp. Assn., Ames	Comp.	99.02	82.04	85.0	19.2	39.5	6.2	2.8	0.3
DeKalb 410	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.98	86.61	77.2	19.2	45.3	5.8	3.0	1.1
214-H	Holden Hybrid Seed Farms, Tipton	1,100	98.65	85.93	83.9	21.5	45.7	3.6	2.8	0.7
Farmers 388	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.63	85.80	81.1	21.1	41.4	7.9	3.0	1.4
PAG 52	Black & Abbott Farms, Walnut, Ill.	1,500	98.57	75.89	80.8	20.7	35.1	3.1	2.8	0.3
Maygold 1064	Earl E. May Seed Co., Shenandoah	Exp.	* 98.56	74.13	72.8	19.9	32.1	4.6	3.0	0.4
Funk G-6	Funk Bros. Seed Co., Belle Plaine	20,000	97.91	71.94	83.1	18.9	33.8	2.3	2.7	0.0
Iowa Hybrid 4417	A. H. Werner, Dickens	396	97.84	82.21	81.1	17.3	45.9	3.8	3.0	0.3
Farmers 321	Farmers Hybrid Seed Corn Co., Hampton	2,680	97.76	84.97	81.1	24.5	42.1	5.5	3.0	1.0
United U36R	United Hybrid Growers Assn., Shenandoah	Exp.	* 97.61	88.75	82.8	22.3	50.7	3.7	3.2	0.0
Pioneer 330B	Pioneer Hi-Bred Corn Co., Des Moines	4,800	97.15	71.43	80.6	24.1	27.2	5.5	3.0	1.4
W-77	Wilson Hybrids, Inc., Harlan	300	96.69	80.61	84.2	21.1	44.6	2.6	3.0	0.3
Funk 71112	Funk Bros. Seed Co., Belle Plaine	Exp.	* 96.56	78.98	85.3	19.6	40.7	5.9	2.8	0.3
Iowa Hybrid 4542	U. S. D. A. & Farm Crops, Ames	Exp.	* 95.81	82.63	84.7	17.0	48.2	6.2	2.8	0.0
Iowa Hybrid 4442	John Sand, Marcus	500	95.52	75.78	83.9	17.5	42.7	3.3	3.0	1.3
Iowa Hybrid 4297	Iowa Agr. Exp. Assn., Ames	Comp.	95.16	81.54	88.6	22.2	44.8	5.6	3.2	0.3
PAG 4897	Wilson-Kininger Corn Co., Sac City	3,600	95.09	90.01	79.7	20.8	58.5	3.1	3.0	0.7
Pioneer 322	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.80	78.60	76.4	24.5	36.7	9.1	3.2	0.7
Funk G-1A	Funk Bros. Seed Co., Belle Plaine	16,000	94.75	71.44	75.6	17.3	42.3	0.4	2.3	0.7
Pioneer 353A	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.58	72.59	77.8	20.5	38.2	3.6	3.0	1.4
Cornhusker 75	Cornhusker Hybrid Co., Fremont, Nebr.	4,000	94.36	83.57	73.3	23.8	50.0	3.0	3.2	1.1
DeKalb 239	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.28	81.14	88.1	19.4	47.6	5.7	3.0	1.9
Turner T26	Turner Hybrid Seed Corn Co., Grand Junction	496	94.00	81.03	80.8	22.5	47.1	4.8	2.8	0.3
Iowa Hybrid 4417	Sar Seed Farms, Charles City	1,500	93.94	83.00	83.3	17.0	54.0	4.3	2.8	0.7
Farmers 321A	Farmers Hybrid Seed Corn Co., Hampton	3,725	93.34	80.41	79.4	24.9	45.1	5.2	3.2	1.4
Cornelius 404C	Cornelius Hybrid Corn Co., Bellevue	600	92.10	77.52	76.0	22.1	47.4	4.4	2.8	0.0
Pioneer 341	Iowa Corn & Small Grain Growers' Assn., Ames	***	91.12	79.16	85.3	20.5	54.1	2.3	3.0	1.6
United U26	United Hybrid Growers Assn., Shenandoah	3,200	91.02	76.39	86.1	16.7	47.7	8.4	3.0	1.3
Mellowdent No. M85	Louis Quirin, Alta	163	90.84	82.04	83.6	19.2	57.1	4.7	2.7	0.0
Funk G-4	Funk Bros. Seed Co., Belle Plaine	3,300	90.48	61.92	80.3	16.8	36.3	3.8	2.3	0.0
United U28	United Hybrid Growers Assn., Shenandoah	3,800	88.97	72.39	81.7	17.3	49.3	5.4	3.0	1.7
Cornhusker 84	Cornhusker Hybrid Co., Fremont, Nebr.	150	88.30	82.75	75.6	24.6	57.7	5.9	3.3	0.0
Pioneer 355	Pioneer Hi-Bred Corn Co., Des Moines	10,500	85.60	70.27	83.9	18.9	55.3	2.3	3.0	1.7
Indiana Hybrid 608C	Earl E. May Seed Co., Shenandoah	5,000	85.16	77.77	78.3	30.5	53.9	5.0	3.0	1.8
Pioneer 353	Garst & Thomas Hybrid Corn Co., Coon Rapids	5,085	82.05	61.51	68.9	21.4	48.8	3.6	3.0	0.8
United U3	United Hybrid Growers Assn., Shenandoah	2,500	76.40	63.36	78.6	22.8	57.2	7.4	3.0	0.7
Average of all entries				81.23	82.5	20.8	37.2	4.4	3.0	0.8

*Experimental entries.

**Differences in yield between any two entries of less than 8.86 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 14. DISTRICT TWO
Results of regular and experimental classes from test plot located near
Mason City in Cerro Gordo County, 1948.

Variety, name and address of entrant, and bushels produced in 1947		Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
						root	stalk		
Pioneer 349.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,675	113.57	48.54	79.4	17.9	0.0	4.6	3.2
Tomahawk 42.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*112.07	48.59	82.2	18.6	0.0	8.5	3.0
H-11.....	Holden F. S. and Exp. Farms, Williamsburg.....	Exp.	*110.91	46.15	73.8	18.3	0.0	4.0	3.0
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	110.14	46.71	77.5	16.7	0.0	10.0	3.0
Pioneer 352.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,150	109.58	44.68	80.8	18.5	0.0	1.7	3.0
United U39.....	United Hybrid Growers Assn., Shenandoah.....	3,800	108.44	45.65	74.2	18.2	0.0	8.6	3.0
Pioneer 352.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	336	108.43	44.49	78.0	19.0	0.0	3.9	3.0
Pioneer X4510.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*107.61	44.30	67.2	19.2	0.0	5.4	2.8
Epleys Early.....	Epley Brothers, Shell Rock.....	65	107.32	42.92	73.1	17.0	0.0	4.2	2.5
Webster 396.....	Webster Hybrids, Inc., Fort Dodge.....	100	106.22	42.10	71.1	17.1	0.0	3.9	2.7
111M.....	W. O. McCurdy & Sons, Fremont.....	1,250	105.86	42.29	70.6	18.7	0.0	4.3	3.0
PAG 4897.....	Wilson-Rininger Corn Co., Sac City.....	3,600	105.71	44.11	85.0	19.6	0.3	8.8	3.0
PAG 299.....	J. M. Hunt & Son, Ackley.....	3,000	105.65	43.57	83.9	20.1	0.0	7.6	3.0
Pioneer 321.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,675	105.57	41.53	79.3	16.5	0.0	3.4	3.0
United U36R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*105.25	42.48	77.2	19.8	0.0	4.7	3.0
Iowa Hybrid 4387.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.73	41.11	82.2	15.6	0.0	6.8	3.0
96M.....	W. O. McCurdy & Sons, Fremont.....	1,500	104.16	41.78	77.5	18.3	0.0	7.5	3.0
DeKalb 241.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	104.07	40.27	83.1	15.1	0.0	5.4	3.0
Mellowdent No. M85.....	Louis Quirin, Alta.....	163	104.03	41.42	85.3	15.7	0.0	9.1	3.0
C217.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*103.90	43.14	83.3	17.2	0.0	14.0	3.0
Federal 222B.....	A. G. Thuman, Cedar Rapids.....	Exp.	*103.80	41.05	77.8	17.6	0.0	6.8	3.0
Cornhusker 75.....	Cornhusker Hybrid Co., Fremont, Nebr.....	4,000	103.74	42.80	62.8	19.9	0.4	9.7	3.0
Turner T26.....	Turner Hybrid Seed Corn Co., Grand Junction.....	496	103.22	40.29	71.3	21.1	0.0	1.2	2.8
Mellowdent M93.....	J. N. Horlacher & Son, Storm Lake.....	200	103.19	39.74	75.8	19.0	0.0	1.8	2.8
Carlson C-N4.....	Carlson Hybrid Corn Co., Audubon.....	500	102.75	41.30	77.2	17.0	0.0	11.2	2.8
Funk G-1A.....	Funk Bros. Seed Co., Belle Plaine.....	16,000	102.60	42.81	75.6	14.5	0.0	20.2	2.2
W-77.....	Wilson Hybrids Inc., Harlan.....	300	102.35	40.43	76.7	16.0	0.0	10.0	2.6
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.15	40.84	85.0	17.3	0.0	11.0	3.0
Cargill N200.....	Cargill Inc., Minneapolis, Minn.....	Exp.	*101.87	40.44	78.3	19.9	0.4	7.2	2.8
Iowa Hybrid 4441.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*101.83	38.60	86.1	15.3	0.0	5.8	2.8
Funk G-6.....	Funk Bros. Seed Co., Belle Plaine.....	20,000	101.76	42.62	73.1	15.3	0.0	21.3	2.2
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.68	39.29	88.1	14.6	0.0	9.2	2.8
Iowa Hybrid 4417.....	Sar Seed Farms, Charles City.....	1,500	101.53	39.59	72.7	14.3	0.0	11.5	2.4
Iowa Hybrid 4397.....	Donald D. Usher, Ottosen.....	250	101.51	38.95	76.1	17.3	0.0	5.8	2.8
Iowearth "S".....	Iowearth Co., Ames.....	2,000	100.96	40.50	81.4	15.2	0.0	14.0	3.0
United U32.....	United Hybrid Growers Assn., Shenandoah.....	4,000	100.95	39.54	76.7	16.4	0.0	10.5	3.0
Iowa Hybrid 4297.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.74	38.64	72.8	19.4	0.0	3.8	3.0
DeKalb 239.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.64	39.29	81.7	15.3	0.0	11.6	2.8
Mullins J-76.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*100.61	41.11	82.5	16.5	0.0	17.2	3.0
	A. H. Werner, Dickens.....	396	100.47	39.55	70.8	15.0	0.0	14.1	3.0

Iowa Hybrid 4297	Iowa Agr. Exp. Assn., Ames	Comp.	100.74	38.04	72.8	15.3	0.0	3.8	3.0	1.1
DeKalb 239	Iowa Agr. Exp. Assn., Ames	***	100.64	39.29	81.7	15.3	0.0	11.6	2.8	1.7
Mullins J-76	Mullins Hybrid Corn Co., Britt	Exp.	*100.61	41.11	82.5	16.5	0.0	17.2	3.0	1.7
Iowa Hybrid 4417	A. H. Werner, Dickens	396	100.47	39.55	70.8	15.0	0.0	14.1	3.0	0.0

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Iowa Hybrid 4308	Iowa Agr. Exp. Assn., Ames	Comp.	100.44	39.30	79.6	16.2	0.0	11.5	3.0	1.1	
PAG 52	Black & Abbott Farms, Walnut, Ill.	1,500	100.40	41.50	77.8	15.7	0.0	20.4	3.0	1.1	
Pioneer 381	Pioneer Hi-Bred Corn Co., Des Moines	4,120	100.39	39.27	80.7	15.7	0.0	12.0	3.0	1.2	
Turner N14A	Turner Hybrid Seed Corn Co., Grand Junction	745	99.95	38.58	75.8	19.9	0.0	6.6	3.0	0.4	
Funk G-5	Funk Bros. Seed Co., Belle Plaine	1,520	99.71	41.22	78.1	16.0	0.0	21.4	2.2	0.4	
Farmers 321	Farmers Hybrid Seed Corn Co., Hampton	2,680	99.59	39.09	73.3	19.7	0.0	9.1	3.0	1.9	
214-H	Holden Hybrid Seed Farms, Tipton	1,100	99.49	39.00	84.2	18.7	0.0	10.2	3.0	1.7	
Pioneer 355	Pioneer Hi-Bred Corn Co., Des Moines	10,500	99.43	36.41	82.2	14.3	0.0	4.4	2.8	4.1	
Farmers 388	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.33	38.52	73.1	19.2	0.0	7.2	3.0	4.2	
Pioneer 353	Garst & Thomas Hybrid Corn Co., Coon Rapids	5,085	99.28	37.64	70.3	16.5	0.0	8.7	3.0	0.4	
W-145	Wilson Hybrids, Inc., Harlan	4,000	98.98	37.92	70.0	17.6	0.0	8.7	2.8	2.0	
Iowa Hybrid 4316	Malcolm H. Grieve, Pierson	400	98.58	37.67	75.0	18.5	0.0	7.4	3.0	3.3	
Maygold 1064	Earl E. May Seed Co., Shenandoah	Exp.	* 98.57	36.53	66.0	16.8	0.0	6.1	3.0	1.0	
Pride D56	Pride Hybrid Co., Dassel, Minn.	10,000	98.51	41.47	72.5	17.0	0.0	23.4	3.0	3.5	
United U32A	United Hybrid Growers Assn., Shenandoah	1,600	97.62	36.64	71.7	18.5	0.0	7.4	3.0	1.2	
Pride B45A	Pride Hybrid Co., Dassel, Minn.	2,000	97.55	40.62	76.0	15.6	0.0	25.9	2.8	0.4	
214-B	Holden Hybrid Seed Farms, Tipton	1,200	97.36	36.95	72.3	20.8	0.0	6.9	2.6	0.9	
Iowa Hybrid 4442	John Sand, Marcus	500	97.06	34.94	77.5	16.2	0.0	5.0	3.0	1.4	
Funk 71112	Funk Bros. Seed Co., Belle Plaine	Exp.	* 96.88	42.24	80.0	15.4	0.4	33.3	3.0	1.4	
Pioneer 340	Iowa Corn & Small Grain Growers' Assn., Ames	***	96.76	35.32	81.9	19.2	0.0	3.1	3.0	3.7	
Funk G-30	Funk Bros. Seed Co., Belle Plaine	1,240	96.57	36.92	71.9	17.3	0.0	13.1	2.3	0.4	
Cornhusker 84	Cornhusker Hybrid Co., Fremont, Nebr.	150	96.28	38.35	71.3	23.4	0.0	11.7	3.0	2.8	
Bear OK-22	Bear Hybrids Corn Co., Decatur, Ill.	Exp.	* 96.06	37.10	78.1	20.2	0.0	11.7	3.0	1.4	
Farmers 321A	Farmers Hybrid Seed Corn Co., Hampton	3,725	95.46	37.21	76.0	22.8	0.0	11.0	3.0	1.8	
Funk G-4	Funk Bros. Seed Co., Belle Plaine	3,300	95.41	38.60	68.3	15.3	0.0	24.8	2.5	0.8	
United U26	United Hybrid Growers Assn., Shenandoah	3,200	95.14	37.68	72.2	14.1	0.0	23.5	3.0	0.8	
Cornelius 404C	Cornelius Hybrid Corn Co., Bellevue	600	95.12	34.78	71.7	18.3	0.5	7.4	3.0	1.4	
Iowa Hybrid 4542	U. S. D. A. & Farm Crops, Ames	Exp.	* 95.06	36.56	78.0	14.5	0.0	19.2	2.8	0.4	
Pioneer 341	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.23	34.21	75.0	20.1	0.0	5.9	2.5	2.6	
Iowealth "A"	Iowealth Co., Ames	2,200	93.32	36.71	82.5	18.1	0.0	20.2	3.0	2.4	
Farmers 223	Farmers Hybrid Seed Corn Co., Hampton	Exp.	* 92.99	38.81	70.6	15.9	0.0	31.9	2.7	1.2	
Iowealth "AA"	Iowealth Co., Ames	Exp.	* 92.92	34.94	77.8	20.5	1.4	8.9	3.0	6.4	
ACE 94	Eliason Seed Sales, West Liberty	400	92.86	36.26	74.7	20.5	0.0	17.8	3.0	1.1	
Pioneer 330B	Pioneer Hi-Bred Corn Co., Des Moines	4,800	92.70	32.53	66.9	20.5	0.0	4.2	3.0	1.7	
Pioneer 353A	Iowa Corn & Small Grain Growers' Assn., Ames	***	90.81	32.62	71.4	16.5	0.0	14.4	3.0	1.6	
PAG 56	North Corn Belt Seed Growers, Naperville, Ill.	400	90.57	37.07	69.0	15.7	0.0	32.9	3.0	1.0	
105H	Harpers Hardy Hybrids, Vinton	300	90.45	33.19	73.3	18.8	0.0	15.2	3.0	1.5	
Pioneer 322	Iowa Corn & Small Grain Growers' Assn., Ames	***	89.73	33.37	75.3	18.5	0.0	18.1	3.0	1.9	
Indiana Hybrid 608C	Earl E. May Seed Co., Shenandoah	5,000	89.40	34.22	65.3	23.4	0.0	17.4	3.0	1.0	
United U28	United Hybrid Growers Assn., Shenandoah	3,800	87.76	34.51	72.2	15.1	0.0	32.3	3.0	0.8	
United U3	United Hybrid Growers Assn., Shenandoah	2,500	79.76	27.05	71.7	19.7	0.0	22.8	3.0	1.4	
Average of all entries					39.47	76.0	17.7	0.0	11.5	2.9	1.7

*Experimental entries.

**Differences in yield between any two entries of less than 5.96 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 15. DISTRICT THREE
Results of regular and experimental classes from test plot located near
West Union in Fayette County, 1948.

Variety, name and address of entrant, and bushels produced in 1947		Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.	
						root	stalk			
Pioneer 352.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,150	112.18	84.47	83.6	20.5	0.7	2.0	2.3	0.0
Iowa Hybrid 4441.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*111.21	83.47	88.7	18.3	3.8	2.3	2.2	0.0
C217.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*109.72	80.07	83.6	19.2	0.0	2.0	2.2	0.3
Bear OK-22.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*108.57	84.20	90.0	24.1	7.8	1.1	2.2	0.0
W-145.....	Wilson Hybrids, Inc., Harlan.....	4,000	108.18	82.58	87.5	20.5	3.5	7.0	2.0	0.6
Tomahawk 42.....	Thompson Hybrid Corn Co., Inc., Belmont.....	Exp.	*107.67	78.11	84.4	20.5	1.3	1.3	2.7	0.0
Pioneer 349.....	Pioneer Hi-Bred Corn Co., Des Moines.....	2,675	107.64	78.70	82.5	20.2	1.7	2.7	2.3	0.0
Iowearth "A".....	Iowearth Co., Ames.....	2,200	107.52	78.36	85.3	19.6	1.6	3.1	2.0	0.0
Pioneer 352.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	336	107.15	78.21	81.7	21.4	1.7	1.7	2.0	0.0
United U32A.....	United Hybrid Growers Assn., Shenandoah.....	1,600	106.06	78.24	85.0	20.5	3.9	3.9	2.2	0.0
H-11.....	Holden F. S. and Exp. Farms, Williamsburg.....	Exp.	*105.09	76.11	84.2	24.1	1.0	1.0	2.3	0.0
214-H.....	Holden Hybrid Seed Farms, Tipton.....	1,100	104.95	78.16	90.6	20.5	5.2	5.8	2.0	0.0
Mullins J-76.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*104.92	75.80	88.0	20.8	2.7	3.0	2.6	0.0
Webster 396.....	Webster Hybrids Inc., Fort Dodge.....	100	104.66	76.73	81.7	22.2	4.6	2.0	2.0	0.5
Farmers 321.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,680	104.05	77.58	85.7	24.1	3.9	4.3	2.0	0.4
Pioneer 321.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,675	103.87	76.15	83.1	22.2	5.4	2.7	2.0	0.0
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.82	77.44	82.0	18.7	11.8	3.3	2.4	0.0
Federal 222B.....	A. G. Thurman, Cedar Rapids.....	Exp.	*103.46	74.61	80.6	19.9	5.5	3.1	2.2	0.0
Iowa Hybrid 4387.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.34	75.47	84.4	20.2	4.9	5.6	2.0	0.0
Pride D56.....	Pride Hybrid Co., Dassel, Minn.....	10,000	103.03	74.40	78.9	19.9	3.2	6.0	2.2	0.7
United U36R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*102.98	75.02	88.3	20.8	5.2	4.7	2.5	0.0
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.80	78.51	84.7	22.2	8.5	7.9	2.7	0.0
Carlson C-N4.....	Carlson Hybrid Corn Co., Audubon.....	500	102.76	71.22	81.9	19.2	3.1	1.0	2.0	0.3
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.34	74.82	82.2	19.9	6.4	6.1	2.5	0.0
Epleys Early.....	Epley Brothers, Shell Rock.....	65	102.28	72.26	77.8	22.2	3.9	0.4	1.8	0.4
DeKalb 241.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.23	74.02	85.6	20.1	9.1	1.6	2.7	0.3
Iowa Hybrid 4542.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*101.92	67.81	87.5	17.9	0.0	1.0	2.0	0.0
Funk 71112.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*101.67	70.10	81.4	20.1	2.1	2.1	2.2	0.0
Iowa Hybrid 4297.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.41	71.65	79.2	23.4	3.2	1.1	2.2	0.4
96M.....	W. O. McCurdy & Sons, Fremont.....	1,500	101.07	69.51	79.7	20.8	2.8	1.1	1.8	0.0
Iowa Hybrid 4417.....	Sar Seed Farms, Charles City.....	1,500	100.94	69.48	77.2	18.2	4.7	2.5	2.2	0.0
Iowearth "AA".....	Iowearth Co., Ames.....	Exp.	*100.90	71.54	81.1	26.7	0.0	1.7	2.7	0.3
Funk G-30.....	Funk Bros. Seed Co., Belle Plaine.....	1,240	100.76	71.43	80.8	21.7	4.1	3.4	2.2	0.7
Iowearth "S".....	Iowearth Co., Ames.....	2,000	100.56	69.33	77.8	18.5	3.9	3.6	2.3	0.4
Maygold 1064.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*100.53	68.70	81.1	19.6	3.1	2.1	2.0	0.0
Mellowdent M85.....	Louis Quirin, Alta.....	163	100.46	71.74	84.4	20.1	7.2	4.0	2.2	0.3
Pioneer 330B.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,800	100.18	69.04	88.6	23.4	1.3	1.3	2.3	0.0
Pioneer X4510.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*100.17	71.35	80.8	22.8	4.5	3.8	2.3	0.0
DeKalb 404A.....	Wilson Hybrids, Inc., Harlan.....	300	100.13	72.40	89.2	19.9	8.1	5.6	2.0	0.6
	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.96	71.63	75.0	20.8	8.2	3.0	2.2	1.5

Pioneer 330B.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,800	100.18	69.04	88.6	23.4	1.3	1.3	2.3	0.0
Pioneer X4510.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*100.17	71.35	80.8	22.8	4.5	3.8	2.0	0.6
W-77.....	Wilson Hybrids, Inc., Harlan.....	300	100.13	72.40	89.2	19.9	8.1	5.6	2.2	1.5
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.96	71.63	75.0	20.8	8.2	3.0	2.2	0.0

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Cornelius 404C.....	Cornelius Hybrid Corn Co., Bellevue.....	600	99.66	73.00	84.4	23.4	8.2	4.3	2.2	0.3
United U39.....	United Hybrid Growers Assn., Shenandoah.....	3,800	99.66	68.00	83.3	23.8	0.4	0.8	2.6	0.4
Mellowdent M93.....	J. N. Horlacher & Son, Storm Lake.....	200	99.59	68.98	84.0	22.2	4.0	1.6	2.0	0.0
Pioneer 381.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,120	99.44	72.17	91.7	20.5	10.2	4.7	2.2	0.0
Iowa Hybrid 4417.....	A. H. Werner, Dickens.....	396	99.30	68.43	84.3	19.6	4.7	3.6	2.0	0.0
Iowa Hybrid 4442.....	John Sand, Marcus.....	500	99.24	66.71	77.8	18.8	2.5	3.2	2.3	0.0
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	400	99.03	75.19	90.7	25.0	9.9	7.4	2.4	0.4
DeKalb 239.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.99	72.66	83.1	22.2	12.0	3.3	2.0	0.0
Farmers 388.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.77	69.08	72.3	22.2	3.7	4.6	2.2	0.0
Iowa Hybrid 4308.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.65	65.36	81.4	19.2	2.7	1.4	2.0	0.0
Cargill N200.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 98.55	69.72	83.9	23.4	5.6	3.3	2.0	0.0
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.36	68.65	83.9	22.2	1.7	7.0	2.2	0.0
214-B.....	Holden Hybrid Seed Farms, Tipton.....	1,200	98.31	69.00	82.0	24.1	5.3	2.0	2.0	0.0
Iowa Hybrid 4397.....	Donald D. Usher, Ottosen.....	250	98.21	66.53	76.3	23.4	3.1	0.0	2.0	0.0
PAG 299.....	J. M. Hunt & Son, Ackley.....	3,000	98.09	69.84	76.1	22.2	6.6	5.1	2.3	0.7
Funk G-6.....	Funk Bros. Seed Co., Belle Plaine.....	20,000	97.85	65.11	83.3	18.5	2.7	4.0	2.0	0.3
PAG 56.....	North Corn Belt Seed Growers, Naperville, Ill.....	400	97.61	66.82	78.9	18.5	2.8	8.5	2.0	0.0
111M.....	W. O. McCurdy & Sons, Fremont.....	1,250	97.48	65.91	70.3	24.1	2.4	0.8	2.0	0.0
United U26.....	United Hybrid Growers Assn., Shenandoah.....	3,200	97.35	68.60	86.7	17.0	5.1	12.5	2.2	0.0
ACE 94.....	Eliason Seed Sales, West Liberty.....	400	97.31	66.66	85.0	22.2	3.3	4.3	2.2	0.0
Farmers 321A.....	Farmers Hybrid Seed Corn Co., Hampton.....	3,725	96.82	66.68	84.7	23.4	3.5	3.9	2.4	0.4
PAG 52.....	Black & Abbott Farms, Walnut, Ill.....	1,500	96.75	64.34	86.7	19.2	3.2	4.5	1.8	0.0
Funk G-5.....	Funk Bros. Seed Co., Belle Plaine.....	1,520	96.72	62.84	87.3	18.5	1.5	3.8	2.0	0.0
Cornhusker 84.....	Cornhusker Hybrid Co., Fremont, Nebr.....	150	96.32	67.33	82.5	26.7	2.4	4.4	2.8	0.0
Turner T26.....	Turner Hybrid Seed Corn Co., Grand Junction.....	496	95.84	66.69	84.4	25.8	5.3	2.3	2.0	0.7
Turner N14A.....	Turner Hybrid Seed Corn Co., Grand Junction.....	745	95.73	64.52	79.4	26.7	1.4	1.1	2.0	0.0
United U32.....	United Hybrid Growers Assn., Shenandoah.....	4,000	95.61	63.77	81.9	22.2	0.7	5.8	3.2	0.0
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.32	70.07	87.7	23.2	14.1	5.7	2.2	0.0
United U28.....	United Hybrid Growers Assn., Shenandoah.....	3,800	94.75	67.82	85.7	19.0	8.6	12.5	2.6	1.2
Farmers 223.....	Farmers Hybrid Seed Corn Co., Hampton.....	Exp.	* 93.72	62.67	70.8	19.2	4.7	8.2	2.0	0.8
Pioneer 353.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,085	93.69	64.58	78.3	22.1	9.9	3.9	2.0	0.7
PAG 4897.....	Wilson-Rininger Corn Co., Sac City.....	3,600	93.32	62.29	74.7	22.2	6.3	3.7	2.2	0.4
Pioneer 355.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10,500	93.27	59.61	78.0	19.9	5.6	1.7	2.0	0.0
Cornhusker 75.....	Cornhusker Hybrid Co., Fremont, Nebr.....	4,000	93.14	63.21	79.3	26.7	3.4	3.8	2.4	0.8
Funk G-4.....	Funk Bros. Seed Co., Belle Plaine.....	3,300	92.89	59.52	87.2	18.5	6.7	3.2	1.8	0.0
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	92.87	66.75	79.7	22.8	16.0	4.5	1.8	0.0
Funk G-1A.....	Funk Bros. Seed Co., Belle Plaine.....	16,000	92.16	55.81	75.6	17.9	1.5	3.3	1.7	0.0
Pride B45A.....	Pride Hybrid Co., Dassel, Minn.....	2,000	91.96	60.60	78.1	19.2	0.7	13.5	2.2	0.0
United U3.....	United Hybrid Growers Assn., Shenandoah.....	2,500	91.82	61.37	81.1	23.8	2.7	8.2	2.5	0.0
Indiana Hybrid 608C.....	Earl E. May Seed Co., Shenandoah.....	5,000	91.46	64.43	81.7	29.5	9.4	2.5	2.0	0.4
105H.....	Harpers Hardy Hybrids, Vinton.....	300	91.36	61.42	80.3	23.8	7.6	4.8	2.2	0.0
Average of all entries.....				70.53	82.5	21.5	4.6	3.8	2.2	0.2

*Experimental entries.

**Differences in yield between any two entries of less than 10.25 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 16. DISTRICT FOUR
Results of regular and experimental classes from test plot located near
Storm Lake in Buena Vista County, 1948.

Variety, name and address of entrant, and bushels produced in 1947		Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
						root	stalk		
Pioneer X5646.....	Pioneer Hi-Bred Corn Co., Des Moines.....	50	107.24	106.97	90.3	14.3	1.2	1.2	2.8
Mullins J-54.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*106.48	108.87	91.9	17.6	1.8	3.3	4.0
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	105.96	106.69	86.7	17.3	1.6	1.9	3.5
J-39-A.....	Jacobsen Hybrid Corn Co., Lake View.....	1,500	105.36	105.37	83.6	18.7	0.3	1.3	2.8
Bear OK-31.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*105.07	105.89	88.6	16.2	1.6	4.7	3.3
55-H.....	Holden Hybrid Seed Farms, Tipton.....	3,500	104.49	102.58	87.8	17.3	0.0	1.6	3.2
Iowa Hybrid 4429.....	Malcolm H. Grieve, Pierson.....	Exp.	*104.35	101.73	81.4	15.5	0.0	2.1	3.0
Iowealth "AQ".....	Iowealth Co., Ames.....	6,000	103.99	106.82	77.8	17.0	2.5	5.7	3.5
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	30,000	103.92	104.66	85.3	18.3	1.0	3.6	4.0
United U41A.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*103.92	105.70	87.8	17.0	3.5	5.1	3.5
C258.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*103.74	103.36	84.2	15.6	1.7	3.6	3.5
HOW.....	Epley Brothers, Shell Rock.....	Exp.	*103.74	103.97	82.2	17.3	2.7	2.7	3.7
Iowa Hybrid 4249.....	Harpers Hardy Hybrids, Vinton.....	1,300	103.52	101.51	79.2	16.3	0.4	3.5	3.0
Farmers 427A.....	Farmers Hybrid Seed Corn Co., Hampton.....	12,500	103.22	100.07	83.6	16.3	0.7	1.7	3.0
I 104A.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	*103.02	102.31	85.7	17.1	3.9	1.6	3.0
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.65	99.95	84.7	15.0	2.4	3.2	3.0
DeKalb 609.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.65	101.46	85.7	15.7	2.0	5.1	3.4
Webster 459.....	Webster Hybrids, Inc., Fort Dodge.....	1,000	102.65	100.94	86.7	19.2	0.3	1.9	2.8
Iowa Hybrid 4345.....	Iowa State Hybrid Corn Co., Elkhart.....	800	102.57	100.57	82.8	17.3	0.7	3.4	3.0
Iowa Hybrid 4297.....	Iowa State Hybrid Corn Co., Elkhart.....	450	102.40	98.76	77.2	16.8	0.7	1.4	3.3
Allee Hybrid 454.....	George M. Allee, Newell.....	Exp.	*102.39	102.87	88.3	17.1	4.4	3.1	3.8
H-22.....	Holden F. S. and Exp. Farms, Williamsburg.....	Exp.	*102.27	100.20	77.2	17.0	2.5	2.2	3.2

PAG 253.....	North Corn Belt Seed Growers, Naperville, Ill.....	1,000	102.24	98.20	83.1	15.7	1.0	2.3	3.2	0.0
Tri-State-Forty-seven.....	Ralph C. Watland & Sons, Sioux City.....	650	102.18	100.24	83.3	16.5	4.0	1.2	3.2	1.6
Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	102.04	99.58	80.7	17.2	2.1	2.1	3.4	0.8
W-245.....	Wilson Hybrids Inc., Harlan.....	1,000	101.95	99.62	85.6	18.5	0.3	2.6	3.0	1.0
Tomahawk 61.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*101.86	98.70	87.2	17.9	1.3	1.0	3.5	1.3
Iowa Hybrid 4418.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*101.86	99.80	82.5	17.7	2.4	2.4	3.0	0.3
Cornelius 405C.....	Cornelius Hybrid Corn Co., Bellevue.....	Exp.	*101.85	98.68	85.0	16.3	1.6	2.0	3.3	2.3
34-H.....	Holden Hybrid Seed Farms, Tipton.....	1,100	101.78	99.32	87.8	16.8	1.3	3.5	3.0	1.3
PAG 282.....	Black & Abbott Farms, Walnut, Ill.....	600	101.72	98.33	79.0	16.2	1.7	2.5	3.4	0.8
Joslin Special 606A.....	Joslin Seed Farms, Holstein.....	500	101.67	98.96	83.3	18.1	0.3	3.0	3.0	0.7
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.65	97.97	85.8	15.7	1.9	2.3	3.2	1.3
Iowa Hybrid 4450.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*101.57	99.35	80.0	16.7	1.0	4.5	3.2	1.4
Iowealth "AQA".....	Iowealth Co., Ames.....	Exp.	*101.48	100.26	78.6	18.3	1.4	3.9	3.5	1.8
Funk G-28.....	Funk Bros. Seed Co., Belle Plaine.....	1,750	101.41	99.60	81.9	17.3	1.4	4.8	3.0	0.7
Maygold 1065.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*101.30	97.63	79.7	15.7	3.5	1.7	2.5	0.4
Beeghly 150.....	Milford Beeghly, Pierson.....	1,200	101.28	97.99	83.6	16.2	2.0	3.3	3.0	0.3
Iowa Hybrid 4297.....	Roy Fanselow, Dows.....	250	101.20	99.52	87.8	17.3	4.4	1.9	3.5	1.3
DeKalb 458.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.17	100.05	86.4	17.2	4.2	3.5	3.0	0.6
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.15	95.78	82.0	14.6	3.3	0.4	3.0	0.8
Pioneer 344.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,963	101.04	98.60	76.7	16.5	2.9	3.6	3.0	0.7
Pioneer 350A.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1,575	100.99	98.06	85.8	16.8	1.3	3.9	3.3	1.3
Cornhusker 85.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2,100	100.93	98.31	82.2	19.2	1.4	1.7	3.3	1.4
Iowa Hybrid 4430.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.88	95.50	79.2	15.6	2.1	1.1	3.0	0.4
Funk 68038.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*100.87	95.97	81.7	17.0	0.7	1.4	3.0	1.0
Iowa Hybrid 4412.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*100.84	96.48	80.6	17.3	0.3	2.8	3.3	0.0
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	100.73	97.38	89.4	17.6	0.6	2.2	3.8	3.7
Webster 402.....	Webster Hybrids Inc., Fort Dodge.....	2,400	100.67	97.53	78.3	17.7	0.4	3.9	2.8	1.4
Iowa Hybrid 4397.....	Iowa. Agr. Exp. Assn., Ames.....	Comp.	100.65	94.15	75.3	16.1	0.4	0.7	2.8	0.4

*Experimental entries.

**Differences in yield between any two entries of less than 10.54 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 16. DISTRICT FOUR (Continued)

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Funk G-29.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.57	96.71	84.4	18.7	0.3	1.6	3.0	1.6
Iowa Hybrid 4060.....	Harpers Hardy Hybrids, Vinton.....	300	100.43	98.04	86.7	17.6	1.6	2.6	3.8	5.1
Iowa Hybrid 4411.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.42	97.93	86.9	18.7	2.6	1.9	3.0	1.6
Federal 205A.....	A. G. Thurman, Cedar Rapids.....	Exp.	*100.41	97.56	87.0	16.1	5.4	1.5	3.0	1.5
PAG 277.....	Black & Abbott Farms, Walnut, Ill.....	1,035	100.38	95.15	75.8	16.2	0.0	2.9	3.0	1.5
Pioneer 350A.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	1,038	100.27	94.71	82.2	17.0	0.7	0.7	3.2	2.0
PAG 366B.....	Black & Abbott Farms, Walnut, Ill.....	3,075	100.22	99.32	85.6	17.6	5.2	3.6	3.3	1.3
Turner T46.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,125	100.13	97.04	86.9	17.5	1.3	4.2	3.2	1.3
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.60	94.33	78.3	15.1	4.3	1.8	3.3	0.0
600.....	W. O. McCurdy & Sons, Fremont.....	1,000	99.60	97.21	82.2	16.8	5.7	3.0	2.8	0.0
Iowa Hybrid 4316.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.56	96.76	76.9	17.2	2.2	4.7	3.2	1.8
Cargill N250.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 99.46	97.46	84.4	17.2	6.9	1.6	3.2	1.3
Maygold 89.....	Earl E. May Seed Co., Shenandoah.....	1,300	99.26	93.67	80.3	17.3	0.0	3.3	2.8	0.4
Iowearth "BC4".....	Iowearth Co., Ames.....	2,000	99.24	95.27	78.3	17.0	2.5	3.2	3.5	1.8
Pioneer 343.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,006	99.05	95.09	86.1	16.1	4.2	2.6	3.2	2.3
Iowa Hybrid 306.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.03	95.25	84.2	17.1	3.3	2.6	3.2	2.3
Webster 448.....	Webster Hybrids Inc., Fort Dodge.....	800	98.79	93.90	81.7	18.9	0.7	2.4	3.2	1.0
Mellowdent No. 94.....	J. N. Horlacher & Son, Storm Lake.....	1,200	98.73	92.37	77.5	17.3	1.8	1.1	2.8	0.4
Mellowdent No. 95.....	Louis Quirin, Alta.....	640	98.48	91.83	75.8	17.5	0.0	2.2	3.0	1.1
W-111.....	Wilson Hybrids Inc., Harlan.....	1,000	98.27	91.73	80.3	17.3	1.0	2.1	3.0	0.7
887.....	Brookfield Seed Co., Hector, Minn.....	500	98.26	90.92	77.5	16.7	0.4	1.8	3.0	1.4
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.21	96.02	83.1	18.5	2.0	5.4	3.7	4.0

Pride D66.....	Pride Hybrid Co., Dassel, Minn.....	12,000	98.12	95.21	80.3	16.2	8.3	2.1	3.7	1.0
PAG 270.....	Associated Pfister Growers, Davenport.....	2,000	98.11	90.25	76.4	16.3	0.4	1.5	3.7	1.8
81.....	Brookfield Seed Co., Hector, Minn.....	20,000	98.06	94.01	78.6	17.4	2.5	4.2	3.3	2.1
United U47.....	United Hybrid Growers Assn., Shenandoah.....	15,000	98.04	92.69	80.8	16.7	2.4	2.1	3.5	4.1
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.01	95.00	77.8	19.2	1.1	5.4	3.3	2.1
Farmers 322.....	Farmers Hybrid Seed Corn Co., Hampton.....	5,500	97.96	92.58	75.8	19.2	0.7	2.6	3.0	0.7
Iowa Hybrid 4297.....	Harpers Hardy Hybrids, Vinton.....	750	97.95	92.75	78.6	17.7	0.7	5.0	3.0	0.0
Pioneer X4741.....	Pioneer Hi-Bred Corn Co., Des Moines.....	675	97.60	93.35	82.5	15.4	4.4	4.4	3.5	3.4
112M.....	W. O. McCurdy & Sons, Fremont.....	3,000	97.17	90.57	83.1	17.2	0.3	4.0	3.2	1.7
Pioneer 344.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,450	97.16	93.51	82.5	18.0	5.4	3.4	3.3	0.7
United U30.....	United Hybrid Growers Assn., Shenandoah.....	3,500	97.16	90.17	88.9	14.6	0.0	6.9	3.3	1.3
99B.....	Eliason Seed Sales, West Liberty.....	75	97.13	88.76	76.1	16.5	1.5	1.5	3.2	0.4
Iowax 5.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 97.11	91.83	84.0	15.7	6.8	1.6	2.8	1.6
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.97	90.78	82.5	17.3	1.0	3.7	3.5	2.7
W-200.....	Wilson Hybrids Inc., Harlan.....	4,000	96.92	93.59	81.7	16.2	8.2	2.0	3.3	3.7
United U42.....	United Hybrid Growers Assn., Shenandoah.....	4,800	95.95	90.99	82.8	16.5	6.0	2.4	3.3	4.4
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.88	89.70	76.9	17.9	2.2	4.0	3.3	1.8
Iowax 4.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 95.88	88.21	80.6	16.2	1.7	3.8	3.5	2.1
PAG 35-2965.....	Wilson-Rininger Corn Co., Sac City.....	Exp.	* 95.78	88.81	80.0	18.2	1.4	2.8	3.0	2.8
Exp. W-H.....	J. M. Hunt & Son, Ackley.....	300	95.71	89.71	86.1	13.8	8.1	3.6	3.2	1.3
Pioneer 373.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,150	95.36	84.13	78.9	13.5	1.4	2.5	3.0	1.4
United U36.....	United Hybrid Growers Assn., Shenandoah.....	3,100	95.14	83.89	76.4	15.7	0.4	1.5	2.8	1.1
United U41.....	United Hybrid Growers Assn., Shenandoah.....	8,000	95.09	86.72	80.6	17.6	0.7	3.1	3.7	2.4
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.95	87.83	84.7	18.2	3.0	2.3	3.2	2.6
Composite Single-Cross.....	Miles T. Roberts, Villisca.....	Exp.	* 94.25	96.43	87.8	16.5	18.0	5.1	3.7	3.5
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.21	86.93	73.6	17.4	4.5	3.0	2.8	1.5
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	93.50	89.74	88.3	17.7	4.7	6.3	3.3	7.9
United U4.....	United Hybrid Growers Assn., Shenandoah.....	3,700	81.99	69.05	76.4	17.9	8.7	6.6	3.7	3.6
Average of all entries.....				96.38	82.4	16.9	2.4	2.9	3.2	1.5

*Experimental entries.

**Differences in yield between any two entries of less than 10.54 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 17. DISTRICT FIVE

Results of regular and experimental classes from test plot located near
Clarion in Wright County, 1948 (Three replications only).

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
C258.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*113.62	120.06	90.0	16.1	2.5	4.3	3.3	3.1
Iowa Hybrid 4060.....	Harpers Hardy Hybrids, Vinton.....	300	113.42	126.19	91.7	18.0	3.6	10.3	3.7	2.4
Iowa Hybrid 4429.....	Malcolm H. Grieve, Pierson.....	Exp.	*110.04	109.74	84.4	15.7	0.7	2.6	3.0	2.6
HOW.....	Epley Brothers, Shell Rock.....	Exp.	*110.01	114.48	84.2	17.2	5.0	4.0	3.0	1.0
Iowealth "BC4".....	Iowealth Co., Ames.....	2,000	108.98	111.67	91.1	16.6	4.3	3.7	3.3	2.4
Webster 459.....	Webster Hybrids Inc., Fort Dodge.....	1,000	108.81	113.48	88.9	17.4	7.5	2.5	3.0	2.5
Iowa Hybrid 4411.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	108.72	111.99	90.6	17.1	3.1	5.5	3.0	2.5
Tomahawk 61.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*107.83	110.31	94.4	16.1	4.7	5.3	3.3	1.8
Mullins J-54.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*107.76	110.90	90.6	16.0	7.4	3.7	3.0	1.8
Cornelius 405C.....	Cornelius Hybrid Corn Co., Bellevue.....	Exp.	*107.73	117.65	87.2	16.9	15.9	3.8	3.3	0.6
United U41.....	United Hybrid Growers Assn., Shenandoah.....	8,000	107.40	114.30	87.8	16.7	13.3	2.5	3.0	1.9
Webster 448.....	Webster Hybrids, Inc., Fort Dodge.....	800	107.30	104.97	87.8	17.1	1.9	1.9	3.0	0.6
Iowealth "AQA".....	Iowealth Co., Ames.....	Exp.	*107.11	110.16	86.1	16.8	7.7	3.2	3.0	1.9
Bear OK-31.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*106.68	110.74	83.9	16.6	7.3	6.6	3.0	0.0
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	106.41	113.08	91.1	16.8	14.0	3.1	3.0	1.2
Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	106.06	103.13	85.8	16.8	2.9	1.9	3.0	1.0
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	105.65	104.56	92.2	17.1	4.8	2.4	3.0	1.8
W-245.....	Wilson Hybrids, Inc., Harlan.....	1,000	105.31	109.20	86.1	17.6	10.3	3.2	3.0	2.6
Pioneer X5646.....	Pioneer Hi-Bred Corn Co., Des Moines.....	50	105.17	105.32	85.0	15.3	9.2	2.6	3.0	0.7
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	105.01	112.29	90.0	16.1	18.5	2.5	3.0	0.0
DeKalb 458.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	104.78	111.97	83.3	16.9	16.0	4.0	3.0	1.0
Iowa Hybrid 4418.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*104.61	111.27	89.4	17.2	16.2	2.5	3.0	2.5

Joslin Special 606A.....	Joslin Seed Farms, Holstein.....	500	104.43	106.35	86.1	17.6	8.4	4.5	3.0	0.7
Iowa Hybrid 4249.....	Harpers Hardy Hybrids, Vinton.....	1,300	104.35	110.02	89.4	16.6	18.0	1.2	3.0	0.0
887.....	Brookfield Seed Co., Hector, Minn.....	500	104.23	103.90	87.8	16.1	8.9	2.5	3.0	1.3
Iowa Hybrid 4450.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*103.98	106.02	82.2	16.5	12.8	1.4	3.0	2.0
PAG 270.....	Associated Pfister Growers, Davenport.....	2,000	103.94	111.13	87.2	16.9	14.7	6.4	3.3	1.3
Iowearth "AQ".....	Iowearth Co., Ames.....	6,000	103.55	104.12	82.8	17.4	4.0	7.4	3.7	3.4
Mellowdent No. 94.....	J. N. Horlacher & Son, Storm Lake.....	1,200	103.21	104.68	83.3	16.5	12.0	3.3	3.0	0.0
Beeghly 150.....	Milford Beeghly, Pierson.....	1,200	102.91	97.72	72.8	16.3	5.3	0.8	3.0	2.3
I 104A.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	*102.89	96.35	68.3	17.2	2.4	1.6	3.0	0.8
Funk 68038.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*102.62	101.71	87.8	15.5	12.0	1.9	3.0	0.0
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.60	101.78	78.3	17.4	7.1	4.3	3.0	2.1
Pioneer X4741.....	Pioneer Hi-Bred Corn Co., Des Moines.....	675	102.53	98.11	84.4	14.7	6.6	3.3	3.0	0.7
Composite Single-Cross.....	Miles T. Roberts, Villisca.....	Exp.	*102.36	111.23	88.9	17.7	8.8	14.4	3.3	5.0
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	30,000	102.32	106.99	88.3	19.4	8.5	7.6	3.0	4.7
PAG 282.....	Black & Abbott Farms, Walnut, Ill.....	600	102.29	102.45	90.6	16.1	12.3	2.5	3.0	1.2
Iowa Hybrid 4297.....	Roy Fanselow, Dows.....	250	102.03	109.79	92.8	17.4	21.0	3.0	3.0	1.2
81.....	Brookfield Seed Co., Hector, Minn.....	20,000	101.86	108.11	80.8	16.5	20.6	2.1	3.0	2.1
J-39-A.....	Jacobsen Hybrid Corn Co., Lake View.....	1,500	101.76	98.98	81.7	18.4	6.1	3.4	2.7	0.7
United U42.....	United Hybrid Growers Assn., Shenandoah.....	4,800	101.56	101.70	77.2	15.7	12.2	2.9	3.0	3.6
Iowa Hybrid 4345.....	Iowa State Hybrid Corn Co., Elkhart.....	800	101.54	97.57	79.4	16.9	6.3	2.8	3.0	2.1
Pioneer 344.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,450	101.32	101.77	79.4	16.5	14.7	0.7	3.0	2.8
Iowa Hybrid 4297.....	Iowa State Hybrid Corn Co., Elkhart.....	450	100.83	105.58	80.6	17.1	17.9	4.1	3.0	0.7
Iowa Hybrid 4397.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.80	107.04	90.6	16.7	20.9	3.7	3.0	0.6
Pioneer 350A.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	1,038	100.78	106.37	85.6	16.6	20.8	3.3	3.0	0.0
Pioneer 350A.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1,575	100.70	99.93	80.6	16.1	13.8	2.1	3.0	0.7
Webster 402.....	Webster Hybrids Inc., Fort Dodge.....	2,400	100.64	97.66	85.0	17.4	9.8	2.0	3.0	0.7
Maygold 89.....	Earl E. May Seed Co., Shenandoah.....	1,300	100.56	100.46	79.4	16.4	13.3	2.8	2.7	2.1
Iowa Hybrid 4297.....	Harpers Hardy Hybrids, Vinton.....	750	100.53	98.16	78.3	16.6	9.2	4.3	3.0	0.7

*Experimental entries.

**Differences in yield between any two entries of less than 13.51 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 17. DISTRICT FIVE (Continued)

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Mellowdent No. 95	Louis Quirin, Alta.	640	100.33	100.06	75.0	16.4	16.3	0.7	3.0	0.0
United U36	United Hybrid Growers Assn., Shenandoah	3,100	100.30	96.66	79.4	16.1	4.2	8.4	3.0	0.7
Iowa Hybrid 4295	Iowa Agr. Exp. Assn., Ames	Comp.	100.24	101.69	87.2	16.1	10.2	9.6	3.0	0.0
Funk G-29	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.23	97.99	80.6	18.0	4.8	7.6	3.0	1.4
H-22	Holden F. S. and Exp. Farms, Williamsburg	Exp.	*100.14	97.92	82.5	16.1	10.1	4.0	3.0	2.0
PAG 366B	Black & Abbott Farms, Walnut, Ill.	3,075	99.94	103.53	86.7	16.8	14.7	7.1	3.0	1.3
PAG 277	Black & Abbott Farms, Walnut, Ill.	1,035	99.81	93.01	73.9	16.1	7.5	1.5	3.0	0.8
Funk G-28	Funk Bros. Seed Co., Belle Plaine	1,750	99.77	98.23	81.7	15.9	12.2	4.1	3.0	0.7
34-H	Holden Hybrid Seed Farms, Tipton	1,100	99.73	93.83	92.2	16.5	8.4	0.6	3.0	3.0
Iowa Hybrid 306	Iowa Agr. Exp. Assn., Ames	Comp.	99.14	103.87	89.4	16.6	20.5	3.1	3.0	3.7
Cornhusker 85	Cornhusker Hybrid Co., Fremont, Nebr.	2,100	98.88	101.91	71.7	17.2	18.6	3.1	3.0	2.3
Allee Hybrid 454	Geo. M. Allee, Newell	Exp.	* 98.56	102.80	89.4	17.4	20.5	3.7	4.0	0.6
Turner T46	Turner Hybrid Seed Corn Co., Grand Junction	1,125	98.37	94.15	82.8	16.5	8.7	5.4	3.3	0.7
99B	Eliason Seed Sales, West Liberty	75	98.17	92.79	80.0	16.1	12.5	0.7	3.0	0.7
Iowa Hybrid 4430	Iowa Agr. Exp. Assn., Ames	Comp.	98.17	104.72	85.6	15.6	28.6	1.3	3.0	0.0
PAG 253	North Corn Belt Seed Growers, Naperville, Ill.	1,000	98.14	95.55	85.0	15.8	15.7	1.3	3.0	1.3
Pioneer 343	Pioneer Hi-Bred Corn Co., Des Moines	22,006	98.06	98.67	90.0	16.1	15.4	6.2	3.0	0.0
PAG 35-2965	Wilson-Rininger Corn Co., Sac City	Exp.	* 97.52	96.07	85.0	16.6	13.7	4.6	3.0	2.0
Maygold 1065	Earl E. May Seed Co., Shenandoah	Exp.	* 97.41	102.64	87.2	16.1	26.8	1.9	3.0	0.0
United U47	United Hybrid Growers Assn., Shenandoah	15,000	97.16	95.70	75.6	16.9	14.0	4.4	3.0	2.2
DeKalb 609	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.10	96.65	78.9	16.5	16.9	4.2	3.0	0.0
Iowa Hybrid 4412	U. S. D. A. & Farm Crops, Ames	Exp.	* 97.01	96.83	76.7	17.1	18.1	2.9	3.0	0.0

United U30.....	United Hybrid Growers Assn., Shenandoah.....	3,500	96.98	95.13	92.8	15.3	12.6	7.8	3.0	0.6
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.92	99.43	83.3	16.9	19.3	5.3	3.0	0.7
112M.....	W. O. McCurdy & Sons, Fremont.....	3,000	96.90	100.58	85.6	16.9	23.4	2.6	3.0	1.3
Farmers 427A.....	Farmers Hybrid Seed Corn Co., Hampton.....	12,500	96.34	92.28	74.4	16.7	11.2	6.0	2.7	0.0
600.....	W. O. McCurdy & Sons, Fremont.....	1,000	96.25	91.36	74.4	16.9	11.2	4.5	3.0	0.8
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.21	101.34	90.0	17.3	27.2	1.9	3.0	0.0
W-111.....	Wilson Hybrids Inc., Harlan.....	1,000	96.10	90.90	77.2	16.1	11.5	5.0	3.0	0.0
Iowax 5.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 95.77	101.13	85.6	16.0	27.9	3.3	3.0	0.0
United U41A.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	* 94.50	104.02	93.9	16.1	33.7	4.1	3.0	1.2
Farmers 322.....	Farmers Hybrid Seed Corn Co., Hampton.....	5,500	94.43	97.47	82.2	18.0	24.3	3.4	3.0	0.7
Iowa Hybrid 4316.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.18	98.27	82.2	17.4	25.0	4.7	3.0	1.4
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	93.84	82.34	68.9	14.9	11.3	0.8	3.0	0.8
Pride D66.....	Pride Hybrid Co., Dassel, Minn.....	12,000	93.79	101.06	75.6	16.1	35.3	0.7	3.0	0.7
55-H.....	Holden Hybrid Seed Farms, Tipton.....	3,500	93.63	89.40	73.3	16.9	17.4	3.0	3.0	0.0
Tri-State-Forty-seven.....	Ralph C. Watland & Sons, Sioux City.....	650	93.59	92.19	79.4	17.1	21.0	2.8	2.7	0.7
Exp. W-H.....	J. M. Hunt & Son, Ackley.....	300	93.49	92.69	85.6	14.9	19.5	7.1	3.0	1.3
Pioneer 373.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,150	93.20	97.17	86.7	15.5	12.2	21.2	3.0	0.0
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	92.62	101.74	72.8	17.7	32.8	3.8	3.0	5.3
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn. Ames.....	Comp.	92.42	97.36	86.1	17.1	21.3	11.0	3.3	4.5
W-200.....	Wilson Hybrids, Inc., Harlan.....	4,000	92.02	91.94	81.1	16.1	20.6	6.2	3.0	5.5
Pioneer 344.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,963	91.53	97.37	84.4	17.2	32.9	3.3	3.0	0.7
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	91.39	90.22	82.8	16.7	23.5	4.0	3.0	0.7
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	91.34	93.52	83.9	16.1	24.5	6.0	3.0	6.0
Federal 205A.....	A. G. Thurman, Cedar Rapids.....	Exp.	* 89.91	85.87	76.1	16.1	25.6	0.7	2.7	0.7
Iowax 4.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 85.79	75.15	62.8	16.7	15.9	6.2	3.0	1.8
Cargill N250.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 84.79	90.80	87.5	17.4	42.9	2.9	3.0	0.0
United U4.....	United Hybrid Growers Assn., Shenandoah.....	3,700	83.88	81.47	73.9	16.1	16.5	19.6	3.0	2.3
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	82.63	91.00	86.7	16.1	46.2	6.4	3.0	1.3
Average of all entries.....				101.42	83.6	16.6	14.7	4.2	3.0	1.4

*Experimental entries.

**Differences in yield between any two entries of less than 13.51 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 18. DISTRICT SIX
Results of regular and experimental classes from test plot located near
Vinton in Benton County, 1948.

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	30,000	107.37	113.90	90.8	17.5	1.2	8.6	3.8	3.7
C258.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*106.24	108.53	91.9	15.4	0.0	7.9	3.7	1.8
Federal 205A.....	A. G. Thurman, Cedar Rapids.....	Exp.	*105.97	107.27	89.7	16.7	0.9	4.6	3.5	0.9
H-22.....	Holden F. S. and Exp. Farms, Williamsburg.....	Exp.	*105.53	104.33	82.5	16.2	0.3	2.4	3.0	1.0
Bear OK-31.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*105.11	104.94	91.1	16.1	0.0	5.2	3.3	0.9
J-39-A.....	Jacobsen Hybrid Corn Co., Lake View.....	1,500	104.66	103.92	88.9	17.5	0.6	2.8	3.3	0.6
55-H.....	Holden Hybrid Seed Farms, Tipton.....	3,500	104.62	104.82	89.4	17.6	0.3	4.4	3.0	1.2
HOW.....	Epley Brothers, Shell Rock.....	Exp.	*140.53	105.94	86.9	17.9	0.0	6.4	3.7	1.3
United U41A.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*104.49	103.63	85.0	16.0	0.3	4.9	3.2	0.7
Cornelius 405C.....	Cornelius Hybrid Corn Co., Bellevue.....	Exp.	*104.31	102.31	90.3	15.7	0.3	3.7	3.0	0.6
Mullins J-54.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*104.08	104.03	89.2	17.0	0.9	4.7	3.8	1.6
Iowa Hybrid 4411.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.04	104.58	85.8	17.7	0.0	5.2	3.3	2.9
Pioneer X5646.....	Pioneer Hi-Bred Corn Co., Des Moines.....	50	103.79	102.59	88.1	14.8	0.0	6.9	3.2	1.0
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.64	102.58	86.0	17.3	1.6	2.3	3.4	2.3
PAG 277.....	Black & Abbott Farms, Walnut, Ill.....	1,035	103.61	101.85	85.8	16.5	0.0	4.2	3.2	1.3
Pioneer 344.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5,963	103.29	102.00	83.9	17.2	2.0	3.0	3.5	0.7
Iowa Hybrid 4450.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*103.16	101.00	82.8	16.5	0.0	4.7	3.0	0.3
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	**	103.15	101.69	89.2	17.3	0.6	3.7	3.0	1.6
Iowaleath "AQ".....	Iowaleath Co., Ames.....	6,000	102.98	103.27	85.6	17.0	0.7	6.2	3.7	3.6
Cornhusker 85.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2,100	102.81	103.05	80.6	18.5	2.4	3.5	3.7	2.4
Iowa Hybrid 4297.....	Roy Fanselow, Dows.....	250	102.62	100.73	89.7	17.0	0.9	4.0	3.0	1.2
600.....	W. O. McCurdy & Sons, Fremont.....	1,000	102.48	101.61	89.2	17.1	2.8	3.7	3.0	1.6

Iowa Hybrid 4297.....	Iowa State Hybrid Corn Co., Elkhart.....	450	102.15	100.02	88.1	17.3	1.9	3.5	3.5	0.3
PAG 366B.....	Black & Abbott Farms, Walnut, Ill.....	3,075	102.05	101.93	87.5	17.0	2.2	5.7	2.8	2.9
Pioneer 350A.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	1,038	101.91	98.45	87.8	16.7	0.6	3.2	3.3	1.3
PAG 253.....	North Corn Belt Seed Growers, Naperville, Ill.....	1,000	101.71	97.66	86.1	16.3	1.3	2.6	3.2	0.7
W-200.....	Wilson Hybrids, Inc., Harlan.....	4,000	101.69	102.89	91.7	16.4	1.2	9.7	3.5	3.6
Webster 459.....	Webster Hybrids, Inc., Fort Dodge.....	1,000	101.67	100.83	88.6	18.1	0.3	5.3	3.0	3.8
Iowa Hybrid 4297.....	O. W. Johnson, LeGrand.....	5,500	101.58	97.65	84.4	17.3	1.6	1.6	3.3	0.3
Tomahawk 61.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*101.55	97.54	85.3	17.0	0.0	2.9	3.7	1.6
PAG 270.....	Associated Pfister Growers, Davenport.....	2,000	101.40	98.54	87.2	15.7	1.3	5.4	3.7	1.3
Pride D66.....	Pride Hybrid Co., Dassel, Minn.....	12,000	101.35	97.93	80.0	16.5	1.0	3.8	3.7	1.4
Pioneer 350A.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1,575	101.21	95.97	81.9	15.7	0.0	3.1	3.3	1.4
W-245.....	Wilson Hybrids Inc., Harlan.....	1,000	101.20	99.94	89.4	17.9	1.2	4.4	3.5	4.4
Iowa Hybrid 4412.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*101.09	98.49	78.9	17.6	1.1	4.9	3.5	0.0
Iowa Hybrid 4345.....	Iowa State Hybrid Corn Co., Elkhart.....	800	100.98	97.63	83.3	18.2	0.0	3.0	3.2	2.7
Webster 448.....	Webster Hybrids, Inc., Fort Dodge.....	800	100.95	99.29	86.9	19.4	0.0	5.1	3.2	1.3
Iowa Hybrid 4297.....	Harpers Hardy Hybrids, Vinton.....	750	100.74	96.81	85.0	17.0	1.6	2.9	3.3	1.0
Pioneer X4741.....	Pioneer Hi-Bred Corn Co., Des Moines.....	675	100.68	97.67	89.7	15.1	0.9	6.8	3.3	2.2
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.49	97.20	81.4	15.5	0.3	7.5	3.8	0.7
Allee Hybrid 454.....	Geo. M. Allee, Newell.....	Exp.	*100.42	101.74	93.6	17.3	3.6	9.2	3.8	2.1
Iowealth "BC4".....	Iowealth Co., Ames.....	2,000	100.41	95.86	86.1	17.6	0.0	3.6	3.3	0.7
DeKalb 609.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.39	97.94	81.7	16.7	1.0	7.1	3.3	0.3
Iowa Hybrid 4418.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*100.22	95.09	81.4	17.3	0.0	2.7	3.2	1.7
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.19	100.03	84.4	19.1	4.0	4.0	3.3	3.6
Pioneer 344.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,450	100.16	96.15	83.3	17.7	1.0	4.0	3.3	0.0
Iowealth "AQA".....	Iowealth Co., Ames.....	Exp.	*100.07	98.32	83.1	18.0	0.7	7.0	3.3	1.7
Turner T46.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,125	100.06	96.48	88.0	16.7	0.0	6.4	3.2	1.1
United U41.....	United Hybrid Growers Assn., Shenandoah.....	8,000	100.02	96.98	86.1	16.9	0.0	6.8	3.7	1.9
887.....	Brookfield Seed Co., Hector, Minn.....	500	99.97	92.63	86.3	15.7	0.4	1.5	3.0	0.4

*Experimental entries.

*Differences in yield between any two entries of less than 7.71 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 18. DISTRICT SIX (Continued)

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Maygold 1065.....	Earl E. May Seed Co., Shenandoah.....	Exp.	* 99.96	93.74	80.3	15.7	1.0	2.4	2.8	1.0
United U47.....	United Hybrid Growers Assn., Shenandoah.....	15,000	99.95	95.36	83.9	16.5	0.3	4.3	3.7	2.3
Iowa Hybrid 4060.....	Harpers Hardy Hybrids, Vinton.....	300	99.83	96.26	86.4	17.3	0.0	5.1	3.8	3.2
Mellowdent No. 94.....	J. N. Horlacher & Son, Storm Lake.....	1,200	99.79	94.35	79.4	16.7	1.1	2.8	3.2	1.1
Iowa Hybrid 4430.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.79	93.68	81.7	16.0	0.7	3.1	3.0	0.7
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.74	95.98	82.8	17.3	1.0	4.0	3.2	3.0
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.74	95.71	85.0	17.5	0.3	4.3	3.2	2.6
ACE 395.....	Eliason Seed Sales, West Liberty.....	650	99.64	95.94	89.7	18.5	1.2	3.1	3.2	2.2
Iowa Hybrid 4249.....	Harpers Hardy Hybrids, Vinton.....	1,300	99.58	94.67	85.6	17.3	2.0	2.9	3.0	0.0
Beeghly 150.....	Milford Beeghly, Pierson.....	1,200	99.54	95.68	86.9	16.4	1.0	6.7	3.0	0.0
Iowa Hybrid 4429.....	Malcolm H. Grieve, Pierson.....	Exp.	* 99.29	93.02	88.6	16.7	0.6	2.8	3.0	0.6
Pioneer 373.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,150	99.11	93.53	87.2	14.8	3.5	3.8	3.2	0.0
Joslin Special 606A.....	Joslin Seed Farms, Holstein.....	500	99.07	95.03	91.9	19.0	0.9	3.6	3.0	1.2
DeKalb 458.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.04	94.42	81.4	17.2	1.0	4.4	3.0	1.7
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.01	96.15	80.3	16.8	0.0	8.3	3.3	2.8
Iowa Hybrid 4397.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.00	92.48	88.3	17.0	0.6	2.5	3.0	0.6
Farmers 322.....	Farmers Hybrid Seed Corn Co., Hampton.....	5,500	98.88	95.96	85.8	18.9	0.3	5.5	3.0	3.2
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.78	94.98	85.6	14.8	2.3	8.1	3.0	0.7
PAG 282.....	Black & Abbott Farms, Walnut, Ill.....	600	98.69	93.62	84.0	16.8	0.4	5.6	3.0	1.2
Tri-State-Forty-seven.....	Ralph C. Watland & Sons, Sioux City.....	650	98.54	91.53	81.4	16.7	0.0	2.7	3.0	2.1
Cargill N250.....	Cargill Inc., Minneapolis, Minn.....	Exp.	* 98.41	92.80	88.9	17.2	2.5	2.8	3.0	0.6
Pioneer 343.....	Pioneer Hi-Bred Corn Co., Des Moines.....	22,006	98.31	93.42	87.8	17.9	0.6	4.8	3.2	1.6

DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.30	90.48	83.3	15.4	0.4	3.6	3.2	0.4
Farmers 427A.....	Farmers Hybrid Seed Corn Co., Hampton.....	12,500	98.26	92.03	85.6	17.3	1.0	3.6	3.2	0.3
34-H.....	Holden Hybrid Seed Farms, Tipton.....	1,100	98.24	91.91	88.3	17.2	0.6	3.5	3.3	1.3
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.20	92.90	82.5	18.0	0.3	4.0	3.7	2.4
Iowa Hybrid 4316.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.15	93.37	88.3	16.8	0.0	6.6	3.2	2.5
Composite Single-Cross.....	Miles T. Roberts, Villisca.....	Exp.	* 98.07	100.09	93.1	18.1	4.8	11.0	3.8	3.6
Funk G-29.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.72	91.86	84.7	18.5	0.3	4.3	3.0	0.3
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.52	93.39	80.6	18.8	1.0	5.5	3.7	2.1
PAG 35-2965.....	Wilson-Rininger Corn Co., Sac City.....	Exp.	* 97.50	91.78	84.4	18.3	1.0	3.3	3.0	2.6
W-111.....	Wilson Hybrids, Inc., Harlan.....	1,000	97.49	89.93	88.6	17.4	0.3	2.8	3.0	0.9
United U42.....	United Hybrid Growers Assn., Shenandoah.....	4,800	97.46	92.88	80.8	16.0	1.4	7.2	3.3	3.1
Funk 68038.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	* 97.05	90.82	83.6	16.8	1.0	5.0	3.0	2.3
I 104A.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	* 97.01	90.58	79.7	18.8	0.8	2.9	3.0	1.7
Funk G-28.....	Funk Bros. Seed Co., Belle Plaine.....	1,750	96.97	91.06	81.7	16.0	0.7	7.1	3.2	1.7
Webster 402.....	Webster Hybrids, Inc., Fort Dodge.....	2,400	96.97	91.95	86.7	17.0	3.9	4.5	3.0	1.3
81.....	Brookfield Seed Co., Hector, Minn.....	20,000	96.68	91.58	83.9	16.2	1.3	7.3	3.0	3.3
Maygold 89.....	Earl E. May Seed Co., Shenandoah.....	1,300	96.67	90.00	88.6	17.3	1.9	3.5	3.0	2.2
112M.....	W. O. McCurdy & Sons, Fremont.....	3,000	96.65	89.79	81.4	16.7	1.0	5.1	3.0	1.4
United U36.....	United Hybrid Growers Assn., Shenandoah.....	3,100	95.97	85.43	79.7	15.4	0.4	2.1	3.0	1.7
Exp. W-H.....	J. M. Hunt & Son, Ackley.....	300	95.83	86.55	81.4	14.3	1.7	4.4	3.0	1.4
99B.....	Eliason Seed Sales, West Liberty.....	75	95.77	86.51	78.1	16.5	1.1	2.5	3.0	1.8
Iowax 4.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 95.62	87.47	78.0	16.4	0.9	4.7	3.6	2.1
Mellowdent No. 95.....	Louis Quirin, Alta.....	640	95.42	87.41	79.4	17.6	0.7	4.2	3.0	1.8
Iowa Hybrid 306.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.56	88.49	78.3	18.7	0.4	7.1	3.5	3.2
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	93.91	88.66	80.3	16.8	1.4	10.7	3.7	2.8
Iowax 5.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 92.49	77.51	73.3	15.3	0.0	1.1	3.0	0.6
United U4.....	United Hybrid Growers Assn., Shenandoah.....	3,700	91.94	86.86	84.7	14.4	5.6	11.8	3.8	4.3
United U30.....	United Hybrid Growers Assn., Shenandoah.....	3,500	91.17	82.22	84.4	15.0	0.7	10.9	3.3	4.3
Average of all entries.....				96.28	85.2	16.9	1.0	4.8	3.3	1.7

*Experimental entries.

**Differences in yield between any two entries of less than 7.71 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 19. DISTRICT SEVEN
Results of regular and experimental classes from test plot located near
Westside in Crawford County, 1948.

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Tomahawk 80.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*111.96	110.83	81.7	20.5	1.4	2.7	3.0	0.3
Corn King 118A.....	Malcolm H. Grieve, Pierson.....	Exp.	*111.91	112.52	86.4	20.2	2.6	4.2	3.0	0.6
C277.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*111.27	114.24	91.4	20.5	5.2	5.2	4.0	1.2
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	760	109.81	110.94	93.1	24.5	0.9	4.8	3.3	0.9
Dockendorff 52.....	Wm. Dockendorff & Sons, Danville.....	610	107.39	109.67	88.9	22.2	10.3	2.5	3.8	1.3
307H.....	Harpers Hardy Hybrids, Vinton.....	300	107.39	103.98	83.3	19.6	3.7	4.3	3.2	0.3
Bear OK-66.....	Bear Hybrids Corn Co., Decatur, Ill.....	Exp.	*106.98	106.84	82.2	23.2	5.4	4.1	3.8	0.0
United 52R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*106.49	108.99	90.8	22.0	11.9	2.8	4.0	0.9
PAG 392.....	Pfister Associated Growers, Inc., Monroe.....	1,100	106.12	104.11	80.8	19.2	6.5	4.8	3.7	2.1
Indiana Hybrid 620C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	*105.97	103.69	86.1	22.1	6.8	1.9	3.0	0.7
77-H.....	Holden Hybrid Seed Farms, Tipton.....	800	105.87	100.73	82.8	20.2	5.4	1.3	3.8	1.0
H-3.....	Holden F. S. and Exp. Farms, Williamsburg.....	50	105.43	100.36	73.6	21.8	1.9	3.8	4.0	1.1
Iowa Hybrid 4320.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	*105.36	107.91	86.4	23.1	9.3	4.8	4.0	3.2
Cornelius C66.....	Cornelius Hybrid Corn Co., Bellevue.....	100	104.95	101.16	82.5	21.5	5.1	3.7	3.0	0.3
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	104.95	103.62	86.4	21.9	10.0	1.9	4.0	0.0
Pioneer 333.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	104.92	102.85	90.0	21.7	4.9	6.2	3.2	0.0
Iowa Hybrid 4452.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.57	102.75	86.7	21.4	7.4	4.5	4.0	1.0
Iowa Hybrid 4423.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.39	101.63	86.4	21.5	5.1	5.1	3.5	1.9
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	450	104.22	105.02	80.8	23.5	9.6	4.1	4.0	1.0
PAG 281.....	J. M. Hunt & Son, Ackley.....	300	103.74	100.14	80.6	19.8	8.6	3.8	3.0	0.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.73	100.69	86.4	23.1	3.9	4.8	4.0	2.9
Pioneer 339.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.72	97.86	79.4	20.2	6.3	2.5	3.5	0.7
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	26,000	103.36	105.41	88.3	20.8	16.0	3.5	3.5	0.9
Pioneer 335.....	Pioneer Hi-Bred Corn Co., Des Moines.....	12,450	103.31	104.63	89.4	20.8	15.2	3.7	3.0	0.0
Maygold 200.....	Earl E. May Seed Co., Shenandoah.....	85	102.80	103.09	84.2	19.2	15.5	4.0	3.2	1.0
Indiana Hybrid 620A.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.76	102.57	80.7	22.2	12.0	4.1	3.0	0.0
W-310.....	Wilson Hybrids Inc., Harlan.....	Exp.	*102.76	103.23	89.2	20.8	15.9	2.5	3.0	0.3
117M.....	W. O. McCurdy & Sons, Fremont.....	1,850	102.72	98.28	80.0	22.1	7.9	2.1	3.8	0.8
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,272	102.60	99.33	80.3	22.0	10.0	2.1	3.5	0.4
Cargill N300.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	*102.38	102.28	81.1	21.1	15.8	1.7	3.5	1.0
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	102.05	105.76	86.9	22.8	18.9	2.9	3.8	0.3
Iowa Hybrid 4383.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.00	101.77	79.4	20.2	16.4	2.5	3.8	0.7
Iowa Hybrid 4385.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.83	96.06	85.0	22.8	8.8	0.0	4.0	0.3
825.....	W. O. McCurdy & Sons, Fremont.....	800	101.83	97.52	78.0	22.1	7.3	4.3	3.2	0.4
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	101.39	98.27	80.0	23.1	7.3	5.2	3.8	1.0
Funk G-169.....	Funk Bros. Seed Co., Belle Plaine.....	6,329	101.31	98.59	84.7	21.8	4.7	10.2	3.8	0.0
Webster 480.....	Webster Hybrids Inc., Fort Dodge.....	200	101.25	100.22	86.1	22.5	14.5	1.6	3.7	1.3
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2,600	100.61	94.53	86.0	25.0	2.3	5.0	4.0	1.2
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.53	96.15	85.6	19.4	11.7	3.6	3.0	2.3
Maygold 59.....	Earl E. May Seed Co., Shenandoah.....	2,000	100.32	97.97	84.2	21.1	13.5	3.3	3.5	1.7

Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	2,000	100.33	96.15	85.6	19.4	11.7	3.6	3.0	1.2
Maygold 59.....	Earl E. May Seed Co., Shenandoah.....	2,000	100.32	97.97	84.2	21.1	13.5	3.3	3.5	1.7

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Iowa Hybrid 4435.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.09	100.51	88.9	20.1	20.0	3.8	3.2	0.9
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.06	95.67	81.1	22.1	6.9	6.9	3.2	0.7
Webster 436.....	Webster Hybrids Inc., Fort Dodge.....	800	99.93	96.64	83.6	21.8	9.3	6.3	3.3	1.0
Funk 44474.....	Funk Bros. Seed Co., Belle Plaine.....	1,700	99.84	94.14	75.0	20.5	12.9	0.9	3.6	0.9
United U50.....	United Hybrid Growers Assn., Shenandoah.....	3,100	99.55	93.14	81.9	20.5	11.5	2.0	3.3	0.0
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	800	99.46	96.32	78.6	23.1	7.8	7.4	4.0	0.7
Pioneer 334.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,850	99.40	97.44	93.1	21.7	12.8	4.5	3.3	3.3
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.36	94.55	76.7	20.2	12.3	3.3	3.7	1.8
7581 x 7580.....	Genetics Section, Ames.....	* Exp.	99.22	97.11	83.6	22.8	11.6	5.0	3.5	2.3
Ohio Hybrid C92.....	Lincoln Seed Co., Pacific Junction.....	2,000	99.13	96.58	81.7	23.2	12.9	3.7	3.8	0.0
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.95	87.43	76.9	19.2	7.2	1.1	3.0	0.7
W-205A.....	Wilson Hybrids, Inc., Harlan.....	4,000	98.36	100.61	83.3	22.2	22.0	3.0	3.5	1.0
United U52.....	United Hybrid Growers Assn., Shenandoah.....	1,500	97.96	91.09	79.0	21.7	10.6	2.5	3.0	1.7
Pioneer X4190.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	* 97.76	96.76	78.1	19.6	20.6	3.2	3.0	1.4
ACE 395E.....	Eliason Seed Sales, West Liberty.....	60	97.22	92.63	84.4	20.1	16.5	2.6	3.0	1.3
Pioneer 331.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	4,173	97.16	97.62	88.1	19.9	23.7	2.5	3.3	1.9
Iowa Hybrid 4412.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 97.14	90.49	67.9	19.9	12.9	3.7	3.0	1.2
I 111.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	* 97.08	99.56	79.7	22.0	25.1	2.4	3.0	0.4
Funk G-77.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	* 96.96	90.30	81.4	22.2	12.6	1.7	3.3	1.4
United U57.....	United Hybrid Growers Assn., Shenandoah.....	3,050	96.81	91.22	85.0	21.8	13.1	3.9	3.7	0.0
Iowealth "BE"	Iowealth Co., Ames.....	Exp.	* 96.70	98.91	81.0	21.1	23.9	4.5	4.0	0.8
7577 x 7578.....	Genetics Section, Ames.....	Exp.	* 95.09	86.27	88.1	29.5	1.6	5.1	3.7	0.3
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.80	97.31	78.1	20.8	29.9	2.1	3.2	0.0
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.76	90.84	78.9	19.2	18.0	6.0	3.0	2.1
Iowealth "25"	Iowealth Co., Ames.....	12,000	94.73	95.96	84.2	24.1	23.1	3.0	3.7	2.0
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.67	98.32	86.1	20.1	31.6	2.3	3.0	1.6
PAG 5897.....	Associated Pfister Growers, Davenport.....	5,000	94.58	102.20	87.5	20.5	35.6	3.8	3.2	1.0
Farmers 488.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.13	90.69	80.3	22.2	20.8	2.4	3.2	0.0
PAG 170.....	Walden Farm, Keota.....	800	93.58	95.70	75.3	21.7	26.6	5.2	3.3	1.1
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	1,975	93.32	90.73	78.3	22.8	19.9	4.3	3.3	1.8
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	93.31	89.30	78.6	20.8	19.4	5.0	3.0	1.4
990.....	Brookfield Seed Co., Hector, Minn.....	3,000	92.93	87.02	82.8	27.6	14.1	1.3	4.2	0.7
United U5.....	United Hybrid Growers Assn., Shenandoah.....	605	92.81	89.84	86.1	20.2	17.1	8.1	3.8	6.1
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	92.72	97.36	77.5	20.8	35.1	2.5	3.0	0.4
Farmers 421.....	Farmers Hybrid Seed Corn Co., Hampton.....	3,750	92.18	94.05	85.0	23.8	27.8	3.5	3.0	0.4
United U49.....	United Hybrid Growers Assn., Shenandoah.....	4,500	91.98	91.60	79.2	24.1	25.3	2.8	3.0	0.7
Iowa Hybrid 4284.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	91.68	90.49	76.9	22.4	24.2	5.1	3.0	0.4
215-H.....	Holden Hybrid Seed Farms, Tipton.....	3,000	90.97	83.55	71.4	21.4	17.5	5.1	3.0	0.4
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	90.81	95.13	74.4	21.2	37.3	1.9	3.5	0.8
PAG 35-2966.....	Wilson-Rininger Corn Co., Sac City.....	Exp.	* 88.38	88.94	85.6	17.2	37.7	3.3	3.0	2.0
United U40.....	United Hybrid Growers Assn., Shenandoah.....	3,250	87.57	88.82	76.9	19.2	39.4	2.2	3.0	0.4
Average of all entries.....				98.27	82.7	21.6	14.2	3.6	3.4	1.0

*Experimental entries.

**Differences in yield between any two entries of less than 9.45 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 20. DISTRICT EIGHT
Results of regular and experimental classes from test plot located near
Huxley in Story County, 1948.

Variety, name and address of entrant, and bushels produced in 1947		Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
						root	stalk		
H-3.....	Holden F. S. and Exp. Farms, Williamsburg.....	50	*109.26	113.67	77.7	18.7	0.0	3.6	0.0
C277.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*109.18	115.47	86.0	20.8	1.2	3.8	0.0
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	107.93	110.64	77.2	17.3	0.7	3.5	0.7
Iowa Hybrid 4383.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	107.73	110.96	78.3	18.0	0.7	3.2	0.0
Tomahawk 80.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*107.23	109.92	78.9	18.8	0.0	3.0	0.0
7581 x 7580.....	Genetics Section, Ames.....	Exp.	*105.08	108.55	83.1	20.8	1.3	3.3	1.3
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	450	105.02	105.72	79.0	19.1	0.4	3.6	0.0
Iowa Hybrid 4320.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	104.57	109.06	79.7	22.0	1.7	3.8	0.4
Webster 480.....	Webster Hybrids Inc., Fort Dodge.....	200	104.27	106.92	78.0	18.5	3.9	3.4	0.0
United 52R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*104.06	103.47	75.0	17.9	0.4	3.2	0.4
Pioneer 335.....	Pioneer Hi-Bred Corn Co., Des Moines.....	12,450	103.98	106.59	81.0	19.2	3.3	3.0	0.4
PAG 5897.....	Associated Pfister Growers, Davenport.....	5,000	103.58	106.32	84.4	18.5	5.9	3.2	0.7
Iowaleath "425".....	Iowaleath Co., Ames.....	12,000	103.46	105.70	73.3	18.5	3.2	3.2	0.5
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	103.19	103.70	76.9	19.1	1.8	3.7	0.4
Dockendorff 52.....	Wm. Dockendorff & Sons, Danville.....	610	103.16	104.16	79.2	19.9	2.1	3.7	1.1
Iowa Hybrid 4423.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.93	105.43	81.1	20.5	1.4	3.7	2.1
Iowa Hybrid 4385.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.91	101.37	72.5	17.9	1.5	3.2	0.0
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,272	102.82	103.37	74.2	19.2	2.3	3.7	0.4
307H.....	Harpers Hardy Hybrids, Vinton.....	300	102.72	100.57	77.8	17.7	0.0	3.0	0.7
Iowa Hybrid 4452.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.68	103.04	79.7	20.1	1.1	3.8	0.0
Cargill N300.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	*102.59	102.51	83.1	19.0	2.0	3.3	0.3
7577 x 7578.....	Genetics Section, Ames.....	Exp.	*102.01	103.33	82.8	22.8	1.0	3.3	0.3
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.86	101.33	79.3	19.1	2.1	3.6	0.0
990.....	Brookfield Seed Co., Hector, Minn.....	3,000	101.75	100.19	74.7	18.8	1.9	3.3	0.0
Funk 44474.....	Funk Bros. Seed Co., Belle Plaine.....	1,700	101.71	98.76	75.0	17.5	0.0	3.3	0.6
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.67	101.50	75.7	20.8	0.0	4.0	0.0
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	101.60	99.83	70.6	19.9	0.4	4.0	0.0
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	760	101.53	102.17	80.0	21.4	0.7	3.3	0.0
Pioneer 339.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.50	98.13	70.3	18.8	0.0	3.0	0.0
Funk G-169.....	Funk Bros. Seed Co., Belle Plaine.....	6,329	101.48	100.27	75.0	19.2	1.5	3.8	1.1
Cornelius C66.....	Cornelius Hybrid Corn Co., Bellevue.....	100	101.29	97.67	71.1	18.1	0.0	3.0	0.0
Indiana Hybrid 620C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.20	100.05	78.0	20.5	0.4	3.0	0.0
Ohio Hybrid C92.....	Lincoln Seed Co., Pacific Junction.....	2,000	101.03	100.11	72.5	18.8	1.2	3.7	0.4
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2,600	101.02	100.05	73.3	22.0	0.0	4.0	0.0
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	1,975	100.97	99.30	73.9	19.2	1.5	3.8	1.9
Pioneer 334.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4,850	100.97	101.19	88.1	19.2	1.3	3.2	0.6
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.87	101.54	79.0	19.6	4.6	3.0	0.8
PAG 281.....	J. M. Hunt & Son, Ackley.....	300	100.72	96.32	72.8	17.3	1.2	3.3	0.4
PAG 392.....	Pfister Associated Growers, Inc., Monroe.....	1,100	100.22	95.86	76.4	17.6	0.7	3.3	0.0
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	26,000	100.16	96.54	75.8	17.3	2.2	3.0	0.4

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825	W. O. McCurdy & Sons, Fremont	800	100.10	96.16	73.1	19.2	0.0	0.8	3.2	0.0
U. S. Hybrid 13	Marion Coppock, Ankeny	800	100.05	98.71	72.8	20.5	0.8	2.7	4.0	0.4
Iowa Hybrid 4435	Iowa Agr. Exp. Assn., Ames	Comp.	99.89	97.50	75.8	19.2	3.3	0.4	3.0	0.0
United U50	United Hybrid Growers Assn., Shenandoah	3,100	99.74	95.62	74.2	17.9	1.1	1.5	3.3	0.0
Funk G-77	Funk Bros. Seed Co., Belle Plaine	Exp.	* 97.73	96.26	79.2	18.8	1.8	0.7	3.3	0.4
Iowa Hybrid 4060	Iowa Agr. Exp. Assn., Ames	Comp.	99.39	94.04	71.7	16.9	1.6	0.8	3.0	0.0
PAG 170	Walden Farm, Keota	800	99.38	96.62	71.0	18.5	2.8	1.9	3.6	0.0
United U52	United Hybrid Growers Assn., Shenandoah	1,500	99.11	93.86	79.2	18.3	0.7	0.4	3.0	0.4
Bear OK-66	Bear Hybrids Corn Co., Decatur, Ill.	Exp.	* 99.10	96.48	79.6	20.8	0.0	2.6	3.5	0.0
Corn King 118A	Malcolm H. Grieve, Pierson	Exp.	* 98.85	93.94	72.5	17.9	0.4	2.3	3.0	0.0
Farmers 421	Farmers Hybrid Seed Corn Co., Hampton	3,750	98.68	95.77	73.1	19.8	3.4	0.4	3.0	0.4
I 111	Irbeck Hybrid Seed Farm, Templeton	Exp.	* 98.53	95.94	77.7	20.2	3.9	0.4	3.0	0.0
Pioneer X4190	Pioneer Hi-Bred Corn Co., Des Moines	Exp.	* 98.47	95.48	70.6	19.2	2.0	2.8	3.0	0.4
117M	W. O. McCurdy & Sons, Fremont	1,850	98.28	93.25	68.1	19.2	0.8	0.8	3.0	0.4
Indiana Hybrid 608C	Iowa Agr. Exp. Assn., Ames	Comp.	98.20	98.07	77.3	19.7	6.9	2.2	3.0	0.9
Pioneer 333	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.16	93.95	78.6	19.2	0.0	3.2	3.0	0.4
Pioneer 331	Garst & Thomas Hybrid Corn Co., Coon Rapids	4,173	98.09	93.39	78.1	19.2	1.8	0.7	3.2	0.4
Maygold 59	Earl E. May Seed Co., Shenandoah	2,000	98.04	91.30	62.2	17.0	0.9	0.9	3.0	0.5
Iowa Hybrid 306	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.00	92.02	73.1	18.5	1.5	0.0	3.0	0.0
W-205A	Wilson Hybrids, Inc., Harlan	4,000	97.97	95.63	68.9	20.5	4.0	0.8	3.0	0.8
77-H	Holden Hybrid Seed Farms, Tipton	800	97.82	91.31	72.8	18.5	0.4	0.4	3.0	0.4
Indiana Hybrid 620A	Iowa Agr. Exp. Assn., Ames	Comp.	97.75	90.70	70.3	17.3	1.2	0.4	3.0	0.0
Phister 280	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.66	92.70	70.6	18.5	2.8	0.8	3.0	0.4
United U40	United Hybrid Growers Assn., Shenandoah	3,250	97.35	91.39	79.4	16.7	3.5	1.1	3.0	0.4
W-310	Wilson Hybrids, Inc., Harlan	Exp.	* 97.24	92.61	75.3	20.2	3.0	0.0	3.0	0.0
Webster 436	Webster Hybrids, Inc., Fort Dodge	800	96.85	91.47	72.8	19.9	1.2	1.2	3.0	0.8
Farmers 488	Iowa Corn & Small Grain Growers' Assn., Ames	***	96.22	89.30	71.7	19.2	1.6	0.4	3.0	0.0
United U5	United Hybrid Growers Assn., Shenandoah	605	96.08	91.79	71.4	18.8	2.3	4.3	3.3	0.8
Pioneer 340	Iowa Corn & Small Grain Growers' Assn., Ames	***	95.95	88.58	77.8	18.3	1.4	1.1	3.0	0.4
Iowaleath "BE"	Iowaleath Co., Ames	Exp.	* 95.65	90.70	68.0	19.6	3.9	1.5	3.6	0.5
United U49	United Hybrid Growers Assn., Shenandoah	4,500	95.39	89.95	74.4	19.9	2.2	2.2	3.0	0.8
PAG 35-2966	Wilson-Rininger Corn Co., Sac City	Exp.	* 94.99	86.52	78.6	16.0	4.2	0.7	2.8	0.4
Pioneer 330	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.94	86.31	68.0	17.9	2.5	0.0	3.0	0.5
Maygold 200	Earl E. May Seed Co., Shenandoah	85	94.57	86.26	73.6	17.9	2.6	1.1	3.0	0.0
Iowa Hybrid 4412	U. S. D. A. & Farm Crops, Ames	Exp.	* 94.48	86.52	69.7	20.5	0.0	1.2	3.0	0.4
United U57	United Hybrid Growers Assn., Shenandoah	3,050	94.20	86.44	71.4	20.5	0.8	1.2	3.0	0.4
Iowa Hybrid 939	Iowa Agr. Exp. Assn., Ames	Comp.	93.76	87.02	66.7	17.0	5.0	3.3	3.0	0.8
DeKalb 404A	Iowa Corn & Small Grain Growers' Assn., Ames	***	93.48	84.40	74.2	16.7	4.1	1.5	3.0	0.0
Iowa Hybrid 4284	Iowa Agr. Exp. Assn., Ames	Comp.	92.28	83.92	63.1	19.2	4.0	1.8	2.8	0.0
ACE 395E	Ellason Seed Sales, West Liberty	60	92.06	82.14	74.7	19.1	1.8	1.8	3.0	0.0
215-H	Holden Hybrid Seed Farms, Tipton	3,000	91.67	80.31	65.8	18.5	2.5	0.0	3.0	0.0
Average of all entries				97.35	75.2	19.0	1.8	1.4	3.3	0.3

*Experimental entries.

**Differences in yield between any two entries of less than 10.92 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 21. DISTRICT NINE
Results of regular and experimental classes from test plot located near
Tipton in Cedar County, 1948.

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
PAG 170.....	Walden Farm, Keota.....	800	110.49	107.25	85.7	23.8	5.5	1.2	4.2	1.2
Funk G-77.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*107.36	98.88	77.5	22.8	1.1	2.2	3.5	1.1
H-3.....	Holden F. S. and Exp. Farms, Williamsburg.....	50	107.25	100.44	84.2	24.1	1.7	3.3	4.2	0.3
307H.....	Harpers Hardy Hybrids, Vinton.....	300	107.15	98.60	77.3	22.5	1.3	3.0	3.8	0.0
Corn King 118A.....	Malcolm H. Grieve, Pierson.....	Exp.	*106.27	98.91	89.3	23.8	0.0	5.2	3.6	1.5
Indiana Hybrid 620A.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	105.93	96.50	80.0	22.5	2.1	2.1	3.7	0.7
PAG 281.....	J. M. Hunt & Son, Ackley.....	300	105.57	96.94	79.4	23.8	0.7	3.9	3.7	0.4
Iowa Hybrid 4320.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	105.36	101.40	83.9	29.5	1.7	3.6	4.2	1.0
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	500	105.09	97.35	86.4	26.2	1.6	2.3	4.0	0.0
Pioneer 335.....	Pioneer Hi-Bred Corn Co., Des Moines.....	12,450	104.76	100.31	91.1	25.8	6.1	4.0	3.8	0.9
Maygold 200.....	Earl E. May Seed Co., Shenandoah.....	85	104.31	93.11	83.1	22.5	1.0	2.7	3.5	0.0
PAG 5897.....	Associated Pfister Growers, Davenport.....	5,000	104.20	98.67	88.3	26.3	1.9	6.6	4.0	0.6
Cornelius C66.....	Cornelius Hybrid Corn Co., Bellevue.....	100	104.12	97.87	89.7	27.2	1.9	4.6	3.8	0.0
Tomahawk 80.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*104.03	95.67	84.4	25.8	0.0	4.6	3.7	0.3
Iowa Hybrid 4383.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.58	96.07	80.6	28.6	1.7	1.4	4.2	0.3
825.....	W. O. McCurdy & Sons, Fremont.....	800	103.57	94.25	86.9	25.0	1.0	3.5	3.7	0.6
215-H.....	Holden Hybrid Seed Farms, Tipton.....	3,000	103.29	93.68	81.4	23.3	4.8	2.1	3.0	0.0
Pioneer X4190.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*103.10	94.51	85.0	25.8	0.7	4.3	4.0	1.6
77-H.....	Holden Hybrid Seed Farms, Tipton.....	800	103.02	92.11	79.7	23.5	1.7	2.8	3.8	0.4
Iowa Hybrid 4412.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	*102.83	93.20	81.9	25.4	0.3	4.4	3.5	0.0
Maygold 59.....	Earl E. May Seed Co., Shenandoah.....	2,000	102.72	93.46	82.2	26.7	0.0	3.7	4.0	0.3
Pioneer 339.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.58	93.91	86.9	27.2	1.0	3.2	4.0	0.6
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,272	102.46	98.16	88.3	28.6	7.1	3.3	4.3	0.0
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	760	101.87	98.89	88.9	29.5	7.2	4.7	3.8	0.9
Funk G-37.....	Funk Bros. Seed Co., Belle Plaine.....	8,000	101.76	90.89	81.1	23.8	2.7	3.1	4.3	0.7
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.76	92.22	91.4	22.8	2.7	6.7	3.3	0.6
PAG 392.....	Pfister Associated Growers, Inc., Monroe.....	1,100	101.62	94.42	89.2	24.6	0.9	10.6	4.0	0.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.60	94.68	80.0	28.1	1.3	5.8	4.2	1.3
United U50.....	United Hybrid Growers Assn., Shenandoah.....	3,100	101.56	91.77	86.1	24.9	2.9	3.2	3.8	1.6
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.44	93.54	84.4	28.1	3.0	2.3	3.7	2.0
ACE 395E.....	Eliason Seed Sales, West Liberty.....	60	101.31	88.85	82.2	23.8	1.4	2.0	3.3	1.4
Ohio Hybrid C92.....	Lincoln Seed Co., Pacific Junction.....	2,000	101.31	93.70	91.1	27.2	1.2	6.4	4.0	0.9
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	800	101.29	94.94	86.4	28.6	2.9	4.8	4.3	1.6
C277.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*101.19	94.01	92.5	28.6	2.1	4.5	3.8	1.2
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.01	89.38	78.6	23.5	0.4	4.6	4.0	2.8
United U40.....	United Hybrid Growers Assn., Shenandoah.....	3,250	100.95	89.94	81.4	24.1	3.4	3.1	3.8	0.3
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.90	91.43	87.2	25.0	3.2	4.5	3.5	1.3
United U52.....	United Hybrid Growers Assn., Shenandoah.....	1,500	100.79	93.17	79.4	28.6	1.4	5.2	3.7	0.7
987M.....	W. O. McCurdy & Sons, Fremont.....	3,000	100.64	92.19	89.7	27.2	1.6	5.3	3.8	1.6
United 52R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*100.58	91.20	80.8	27.6	1.7	3.4	4.3	0.7

987M	W. O. McCurdy & Sons, Fremont	3,000	100.64	92.19	89.7	27.2	1.6	5.3	3.8	1.6
United 52R	United Hybrid Growers Assn., Shenandoah	Exp.	*100.58	91.20	80.8	27.6	1.7	3.4	4.3	0.7

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Ohio Hybrid C92	Iowa State Hybrid Corn Co., Elkhart	450	100.52	90.03	85.8	27.2	1.3	2.3	4.2	1.3
PAG 35-2966	Wilson-Rininger Corn Co., Sac City	Exp.	*100.03	84.51	85.3	21.3	1.0	2.6	3.0	0.3
Indiana Hybrid 620C	Iowa Agr. Exp. Assn., Ames	Comp.	99.94	88.57	78.6	25.8	3.2	1.1	3.3	2.1
Iowa Hybrid 4452	Iowa Agr. Exp. Assn., Ames	Comp.	99.64	92.00	80.3	27.2	4.5	4.8	3.5	2.1
Iowa Hybrid 306	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.61	87.12	77.8	23.8	1.8	3.2	3.5	2.9
Pioneer 331	Garst & Thomas Hybrid Corn Co., Coon Rapids	4,173	99.54	86.26	85.3	23.2	2.6	2.6	4.0	1.3
Maygold 49	Earl E. May Seed Co., Shenandoah	26,000	99.30	88.18	80.6	27.2	1.7	2.4	4.0	1.4
W-205A	Wilson Hybrids, Inc., Harlan	4,000	99.26	88.33	85.0	25.9	2.6	3.9	3.7	0.7
Pioneer 333	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.22	88.47	86.1	24.1	1.3	8.1	3.8	0.3
Iowa Hybrid 4284	Iowa Agr. Exp. Assn., Ames	Comp.	98.92	89.81	83.1	28.6	0.7	5.7	3.5	1.3
Bear OK-66	Bear Hybrids Corn Co., Decatur, Ill.	Exp.	* 98.82	93.27	84.7	33.1	0.7	6.2	4.0	1.3
117M	W. O. McCurdy & Sons, Fremont	1,850	98.80	89.24	82.8	28.1	1.3	5.4	3.8	0.7
U. S. Hybrid 35	Iowa Agr. Exp. Assn., Ames	Comp.	98.19	85.44	78.6	26.7	0.7	2.1	3.8	2.8
Webster 436	Webster Hybrids, Inc., Fort Dodge	800	98.13	89.31	83.9	28.1	5.3	3.6	4.0	0.7
Piester 280	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.11	88.78	80.0	27.6	4.9	3.8	3.8	0.7
DeKalb 404A	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.03	83.16	82.2	22.0	4.4	2.0	3.7	0.7
Cargill N300	Cargill, Inc., Minneapolis, Minn.	Exp.	* 97.70	88.79	83.1	32.0	0.7	3.7	4.0	0.7
Farmers 509	Farmers Hybrid Seed Corn Co., Hampton	1,975	97.56	90.07	83.3	29.0	4.0	7.2	4.0	0.0
Pioneer 334	Pioneer Hi-Bred Corn Co., Des Moines	4,850	97.34	86.95	85.0	27.2	0.7	7.8	4.0	0.7
Iowaleath "BE"	Iowaleath Co., Ames	Exp.	* 97.31	85.39	78.7	27.6	1.7	3.4	4.4	1.3
990	Brookfield Seed Co., Hector, Minn.	3,000	97.26	87.81	85.6	31.5	2.0	2.9	4.0	0.3
Indiana Hybrid 608C	Iowa Agr. Exp. Assn., Ames	Comp.	97.21	85.75	77.2	29.0	1.1	2.5	3.5	2.5
Dockendorff 52	Wm. Dockendorff & Sons, Danville	610	97.10	88.53	82.5	30.5	5.4	2.0	4.0	1.4
Funk G-169	Funk Bros. Seed Co., Belle Plaine	6,329	97.08	88.79	83.6	28.1	2.3	8.6	4.0	1.3
United U49	United Hybrid Growers Assn., Shenandoah	4,500	96.97	85.68	85.3	30.5	1.2	2.3	4.0	0.0
I 111	Irlbeck Hybrid Seed Farm, Templeton	Exp.	* 96.92	86.99	81.7	30.5	2.0	3.4	3.8	1.0
Iowa Hybrid 4423	Iowa Agr. Exp. Assn., Ames	Comp.	96.75	86.56	84.0	31.0	0.0	4.0	4.0	2.4
Iowa Hybrid 4385	Iowa Agr. Exp. Assn., Ames	Comp.	96.63	85.84	79.2	29.1	1.8	4.9	4.2	0.0
Webster 480	Webster Hybrids, Inc., Fort Dodge	200	96.38	85.35	83.3	30.5	2.0	2.3	3.8	1.0
W-310	Wilson Hybrids, Inc., Harlan	Exp.	* 96.27	84.71	83.3	29.5	0.3	4.7	3.5	0.7
Farmers 421	Farmers Hybrid Seed Corn Co., Hampton	3,750	95.60	82.89	78.3	28.1	2.5	3.6	3.7	0.0
United U57	United Hybrid Growers Assn., Shenandoah	3,050	95.53	81.98	85.0	27.2	1.3	3.9	3.8	1.3
Iowa Hybrid 4435	Iowa Agr. Exp. Assn., Ames	Comp.	95.02	79.13	84.4	23.8	1.3	4.6	3.0	2.0
Farmers 488	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.27	80.74	73.9	27.6	3.4	3.4	3.8	0.8
Funk 44474	Funk Bros. Seed Co., Belle Plaine	1,700	* 93.40	78.39	79.3	29.5	0.8	2.1	3.6	0.8
7577 x 7578	Genetics Section, Ames	Exp.	* 93.03	84.13	87.5	33.6	3.2	5.7	4.0	0.6
7581 x 7580	Genetics Section, Ames	Exp.	* 92.97	80.99	83.3	32.0	0.0	5.3	4.0	1.3
Iowaleath "25"	Iowaleath Co., Ames	12,000	92.93	81.29	75.6	32.0	3.7	2.6	4.3	0.7
Cornhusker 50	Cornhusker Hybrid Co., Fremont, Nebr.	2,600	91.78	80.41	87.8	33.1	4.1	3.2	4.0	0.0
Iowa Hybrid 939	Iowa Agr. Exp. Assn., Ames	Comp.	91.37	76.55	75.0	22.5	6.7	7.6	3.8	2.7
United U5	United Hybrid Growers Assn., Shenandoah	605	88.99	74.91	80.6	27.6	1.7	10.3	4.0	3.1
Average of all entries				90.34	83.3	26.9	2.2	4.1	3.8	1.0

*Experimental entries.

**Differences in yield between any two entries of less than 9.91 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 22. DISTRICT ELEVEN
Results of regular and experimental classes from test plot located near
New Virginia in Clarke County, 1948.

Variety, name and address of entrant, and bushels produced in 1947			Performance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
Pioneer 335.....	Garst & Thomas Hybrid Corn Co., Coon Rapids....	8,008	107.90	107.38	85.0	17.2	0.0	11.1	3.0	0.3
Tomahawk 88.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*107.87	116.07	93.3	19.1	0.0	20.8	3.3	2.4
United U57R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*105.82	105.04	91.9	18.8	0.3	11.5	3.2	0.6
H-24.....	Holden F. S. & Exp. Farms, Williamsburg.....	Exp.	*105.57	101.96	81.9	18.5	0.0	8.5	3.3	0.3
PAG 390.....	Walden Farm, Keota.....	650	105.44	105.49	91.7	18.0	0.4	13.5	3.0	1.8
W-350.....	Wilson Hybrids, Inc., Harlan.....	1,500	105.27	100.59	88.1	19.2	0.0	6.6	3.0	0.3
Ohio Hybrid C92.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	105.18	105.76	88.1	19.2	1.0	13.3	3.5	0.6
218-H.....	Holden Hybrid Seed Farms, Tipton.....	100	105.11	102.29	83.9	18.9	0.3	8.9	3.0	1.7
United U59.....	United Hybrid Growers Assn., Shenandoah.....	4,600	103.92	103.02	80.8	20.9	0.0	11.7	3.2	1.4
I 113.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	*103.90	106.05	88.9	21.1	0.3	15.6	3.2	1.3
U. S. Hybrid 13.....	J. H. Isenhardt, Batavia.....	2,500	103.77	106.18	85.6	19.6	0.0	18.2	3.5	1.0
Pioneer 336.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.51	105.34	86.7	18.4	0.3	18.9	3.2	0.3
McAllister 9.....	McAllister Seed Farms, Mt. Union.....	2,000	103.13	100.01	87.5	18.3	0.3	11.8	3.0	1.9
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,300	102.76	99.61	87.5	18.7	0.3	12.1	3.2	1.3
DeKalb 847.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.74	100.21	81.9	18.9	0.0	12.9	3.2	1.7
Bear OK-40.....	Bear Hybrids Corn Co., Decatur, Ill.....	4,000	102.72	102.61	84.4	18.3	0.3	17.4	3.0	0.0
United U65.....	United Hybrid Growers Assn., Shenandoah.....	3,500	102.68	102.66	87.8	21.8	1.0	12.7	3.7	1.6
Maygold 59A.....	Earl E. May Seed Co., Shenandoah.....	21,000	101.91	98.82	83.9	17.4	0.0	15.2	3.7	0.7
Funk G-99.....	Funk Bros. Seed Co., Belle Plaine.....	650	101.87	105.03	79.2	22.1	0.4	19.3	3.5	0.0
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1,581	101.85	99.58	76.9	18.9	0.0	14.4	3.5	1.8
W-300.....	Wilson Hybrids, Inc., Harlan.....	10,000	101.69	96.30	85.6	18.5	0.0	10.4	3.0	2.3
Illinois Hybrid 21.....	McAllister Seed Farms, Mt. Union.....	500	101.66	96.88	80.8	19.8	0.0	10.3	3.5	1.4
Meyer 591.....	Winterset Hybrid Co., Winterset.....	Exp.	*101.66	105.72	90.8	17.9	0.3	24.2	3.0	2.8
PAG 3-E-1.....	Pfister Associated Growers, Inc., Monroe.....	700	101.62	98.43	86.7	19.4	0.0	13.1	3.0	1.3
124M.....	W. O. McCurdy & Sons, Fremont.....	3,500	101.41	102.66	84.4	18.4	0.0	20.7	3.2	1.6
Cornhusker 63.....	Cornhusker Hybrid Co., Fremont, Nebr.....	1,100	101.33	99.48	85.6	19.3	0.0	15.3	3.0	2.0
McAllister 73.....	McAllister Seed Farms, Mt. Union.....	3,100	101.04	95.52	84.2	18.4	0.3	11.6	3.2	0.7
Pfister 1897.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.98	97.48	80.8	19.7	0.0	13.1	3.3	1.7
United U67.....	United Hybrid Growers Assn., Shenandoah.....	3,050	100.81	99.79	83.3	21.5	1.0	14.0	3.7	1.7
124-2.....	W. O. McCurdy & Sons, Fremont.....	1,000	100.45	92.44	83.1	19.1	0.0	8.4	3.2	0.7

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U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3,000	100.38	99.70	84.7	19.8	0.0	17.7	3.4	2.0
U. S. Hybrid 13.....	McAllister Seed Farms, Mt. Union.....	3,300	100.36	101.03	87.8	19.9	0.0	19.6	3.2	1.9
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.93	101.54	87.2	19.2	0.6	21.7	3.3	1.9
Cargill N350.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 99.71	96.78	78.9	19.6	0.7	15.1	3.0	1.4
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	2,985	99.63	102.43	86.4	19.3	0.0	24.4	3.5	1.6
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,550	99.40	93.52	75.6	20.3	0.0	11.4	3.5	1.1
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.32	90.39	86.4	16.3	0.0	11.3	3.0	1.3
Illinois Hybrid 201.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.23	98.50	81.7	17.7	0.3	21.1	3.3	2.0
Margold 99A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.97	89.42	79.4	18.2	0.0	9.1	3.0	0.7
123M.....	W. O. McCurdy & Sons, Fremont.....	2,000	98.90	102.57	85.6	19.9	0.3	25.3	3.5	2.6
McAllister 99.....	McAllister Seed Farms, Mt. Union.....	1,500	98.84	86.89	76.9	17.7	0.0	6.5	2.8	0.4
840.....	W. O. McCurdy & Sons, Fremont.....	500	98.75	89.96	77.5	17.6	0.0	11.1	3.0	0.7
Funk 558.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	* 98.44	98.20	86.7	20.6	0.0	20.2	3.0	1.9
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	98.34	98.17	85.0	20.4	1.6	19.3	3.3	1.3
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	425	98.30	97.93	85.3	20.1	0.0	20.7	3.2	2.0
Kansas 2275 Waxy.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 98.07	97.54	83.9	25.3	0.0	14.9	3.8	3.0
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.86	96.11	82.8	21.5	0.0	18.1	3.2	1.3
Pioneer X4117.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	* 97.80	97.18	88.1	19.8	0.0	21.8	3.0	1.0
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,850	97.67	92.44	80.0	18.0	0.4	16.7	3.0	1.4
United U68.....	United Hybrid Growers Assn., Shenandoah.....	3,020	97.38	94.12	81.1	21.5	0.7	15.8	3.7	1.7
ACE 193.....	Eliason Seed Sales, West Liberty.....	620	97.23	93.17	81.4	20.8	0.7	15.7	3.3	1.4
Funk G-94.....	Funk Bros. Seed Co., Belle Plaine.....	3,670	97.05	90.64	83.6	19.6	0.0	15.0	3.0	0.3
Crows 607.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	96.83	94.76	81.7	19.0	1.0	21.1	3.2	0.3
Pioneer 302.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	338	96.75	96.36	89.4	23.2	0.0	19.6	3.5	1.9
U. S. Hybrid 13.....	Earl E. May Seed Co., Shenandoah.....	4,000	96.73	93.23	80.6	20.0	0.3	17.9	3.5	2.4
Iowa Hybrid 4060.....	Iowa Agricultural Exp. Assn., Ames.....	Comp.	96.64	89.66	81.7	19.6	0.3	13.6	3.0	2.0
6492 x 6493.....	Genetics Section, Ames.....	Exp.	* 96.51	91.02	83.3	22.1	0.0	13.7	3.0	2.0
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.86	84.94	80.3	18.5	0.0	11.1	3.0	0.7
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	14,858	94.96	95.38	78.1	20.9	0.4	25.3	3.5	1.8
ACE 273.....	Eliason Seed Sales, West Liberty.....	Exp.	* 94.62	90.49	76.4	21.5	0.4	18.6	3.8	1.8
Pioneer 331.....	Pioneer Hi-Bred Corn Co., Des Moines.....	6,300	93.08	81.10	78.9	17.4	0.0	13.7	3.0	2.5
United U6.....	United Hybrid Growers Assn., Shenandoah.....	1,500	91.24	80.23	76.7	27.1	0.0	8.3	3.3	0.4
United U72.....	United Hybrid Growers Assn., Shenandoah.....	605	90.84	83.81	75.0	30.9	0.7	9.3	4.7	1.9
U. S. 13 Waxy.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 88.84	88.01	77.8	20.1	0.7	31.4	3.5	3.9
Average of all entries.....				97.43	83.5	19.8	0.2	15.5	3.3	1.4

*Experimental entries.

**Differences in yield between any two entries of less than 9.15 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 23. DISTRICT TWELVE

Results of regular and experimental classes from test plot located near
Danville in Des Moines County, 1948.

Variety, name and address of entrant, and bushels produced in 1947			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct.		Ear ht.	Dropped ears pct.
							root	stalk		
218-H.....	Holden Hybrid Seed Farms, Tipton.....	100	113.55	126.16	88.9	19.4	6.3	2.8	4.0	0.9
Meyer 591.....	Winterset Hybrid Co., Winterset.....	Exp.	*109.65	117.64	86.7	17.9	6.1	4.2	3.7	1.3
Funk 5558.....	Funk Bros. Seed Co., Belle Plaine.....	Exp.	*107.83	124.34	92.5	19.6	18.3	3.6	3.5	0.3
840.....	W. O. McCurdy & Sons, Fremont.....	500	107.11	114.74	85.3	18.5	10.8	2.3	4.0	0.7
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	2,985	107.02	115.79	87.8	20.5	7.9	3.8	4.2	2.9
DeKalb 847.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	106.64	113.42	85.8	19.2	9.1	2.9	4.0	0.7
U. S. Hybrid 13.....	J. H. Isenhardt, Batavia.....	2,500	105.96	117.06	89.2	20.1	10.3	7.2	4.2	0.3
123M.....	W. O. McCurdy & Sons, Fremont.....	2,000	105.92	116.60	86.1	20.5	10.7	5.8	4.3	0.7
United U59.....	United Hybrid Growers Assn., Shenandoah.....	4,600	105.74	109.41	87.5	20.2	5.7	2.9	4.0	0.3
United U65.....	United Hybrid Growers Assn., Shenandoah.....	3,500	105.70	119.17	91.1	19.4	11.6	9.5	4.0	1.2
Cornhusker 63.....	Cornhusker Hybrid Co., Fremont, Nebr.....	1,100	105.59	115.28	89.3	20.8	11.9	3.7	4.0	0.0
Illinois Hybrid 201.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	105.57	114.04	80.0	19.8	10.4	4.5	4.3	0.7
124M.....	W. O. McCurdy & Sons, Fremont.....	3,500	105.44	111.82	88.6	19.6	6.6	6.0	4.0	1.3
Pioneer X4117.....	Pioneer Hi-Bred Corn Co., Des Moines.....	Exp.	*105.33	115.20	92.5	19.2	11.4	6.3	3.7	0.3
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	103.90	112.79	81.4	19.9	9.9	7.5	4.2	1.4
Tomahawk 88.....	Thompson Hybrid Corn Co., Inc., Belmond.....	Exp.	*103.66	115.10	85.6	19.9	17.2	3.6	4.0	1.0
124-2.....	W. O. McCurdy & Sons, Fremont.....	1,000	103.43	109.58	88.6	18.6	12.9	3.5	4.0	0.6
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1,581	103.16	109.33	86.1	20.1	8.7	6.1	4.0	1.6
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3,000	103.06	109.09	80.0	20.5	7.3	6.9	4.3	2.1
PAG 390.....	Walden Farm, Keota.....	650	102.86	118.39	88.6	17.7	24.5	5.0	3.7	0.6
6492 x 6493.....	Genetics Section, Ames.....	Exp.	*102.68	110.96	80.6	18.7	3.1	16.9	3.5	0.3
United U57R.....	United Hybrid Growers Assn., Shenandoah.....	Exp.	*102.62	107.37	80.0	22.2	9.7	2.4	3.8	0.7
McAllister 73.....	McAllister Seed Farms, Mt. Union.....	3,100	102.60	109.79	85.3	19.9	15.0	2.6	4.0	0.3
W-350.....	Wilson Hybrids, Inc., Harlan.....	1,500	102.59	110.76	88.6	19.4	16.6	2.8	4.2	0.0
Pioneer 302.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	338	101.69	109.40	87.2	25.0	9.6	4.8	4.2	0.6
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	101.05	111.22	84.7	19.1	17.7	6.2	3.8	1.0
Illinois Hybrid 21.....	McAllister Seed Farms, Mt. Union.....	500	101.04	108.40	79.2	19.6	17.2	2.8	4.0	1.1
Ohio Hybrid C92.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.97	115.15	84.2	18.8	24.8	4.6	3.8	0.7
Funk G-99.....	Funk Bros. Seed Co., Belle Plaine.....	650	100.88	115.61	81.9	22.2	20.7	6.1	4.0	0.7
United U67.....	United Hybrid Growers Assn., Shenandoah.....	3,050	100.80	107.32	76.1	20.8	13.5	4.7	4.0	0.7

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Pioneer 336.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.47	103.67	83.6	19.8	11.6	4.3	3.8	0.0
Iowa Hybrid 4060.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.24	106.86	86.4	18.1	12.9	8.4	3.8	2.3
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	425	100.12	108.01	88.9	19.9	11.6	10.0	4.0	1.3
United U68.....	United Hybrid Growers Assn., Shenandoah.....	3,020	100.12	105.84	81.4	22.8	12.3	4.1	4.2	0.3
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.81	113.63	88.3	21.1	23.6	4.7	3.8	0.6
W-300.....	Wilson Hybrids, Inc., Harlan.....	10,000	99.71	108.72	87.5	19.0	20.3	4.4	4.2	0.3
Funk G-94.....	Funk Bros. Seed Co., Belle Plaine.....	3,670	99.68	102.65	87.2	20.2	8.3	8.0	4.0	0.3
Cargill N350.....	Cargill, Inc., Minneapolis, Minn.....	Exp.	* 99.34	110.27	86.9	19.6	23.3	3.8	3.8	0.0
U. S. Hybrid 13.....	McAllister Seed Farms, Mt. Union.....	3,300	99.34	107.16	86.4	21.7	12.5	7.7	4.2	2.6
U. S. Hybrid 35.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.11	107.19	87.5	20.1	14.9	7.9	3.8	1.6
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,850	99.10	109.25	87.7	18.7	25.1	1.9	3.8	1.1
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	99.07	97.58	89.7	18.7	8.7	4.3	3.5	0.6
PAG 3-E-1.....	Pfister Associated Growers, Inc., Monroe.....	700	98.65	112.48	90.3	19.2	28.9	2.8	3.2	0.9
H-24.....	Holden F. S. & Exp. Farms, Williamsburg.....	Exp.	* 98.60	108.07	84.7	19.2	21.0	5.6	4.0	0.7
Maygold 59A.....	Earl E. May Seed Co., Shenandoah.....	21,000	97.69	106.01	81.9	19.8	20.0	6.1	3.7	0.0
ACE 193.....	Eliason Seed Sales, West Liberty.....	620	96.88	94.73	79.4	20.2	10.5	3.2	4.2	1.1
U. S. 13 Waxy.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 96.81	99.29	87.2	18.7	11.8	9.2	4.3	0.6
I 113.....	Irlbeck Hybrid Seed Farm, Templeton.....	Exp.	* 96.26	103.30	85.3	22.2	15.3	8.5	3.8	1.0
Bear OK-40.....	Bear Hybrids Corn Co., Decatur, Ill.....	4,000	95.73	96.96	76.7	19.4	13.8	6.5	4.0	0.7
U. S. Hybrid 13.....	Earl E. May Seed Co., Shenandoah.....	4,000	95.52	98.70	82.8	21.0	12.8	7.7	4.0	3.0
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1,300	95.14	105.10	86.4	19.4	23.2	8.7	3.8	0.6
Pfister 1897.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	95.09	105.32	83.9	19.7	28.8	3.0	4.0	1.0
Maygold 99A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.82	93.41	85.8	18.5	8.4	11.0	3.2	0.3
ACE 273.....	Eliason Seed Sales, West Liberty.....	Exp.	* 94.02	99.33	80.8	21.4	17.5	7.9	4.2	1.4
Pioneer 335.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	8,008	93.28	103.59	85.3	19.0	27.0	8.5	3.5	0.0
United U72.....	United Hybrid Growers Assn., Shenandoah.....	605	93.26	97.24	80.8	28.1	15.1	3.4	4.8	0.7
Pioneer 331.....	Pioneer Hi-Bred Corn Co., Des Moines.....	6,300	92.92	88.04	78.9	18.0	7.4	10.9	3.7	0.4
McAllister 99.....	McAllister Seed Farms, Mt. Union.....	1,500	92.66	92.71	79.4	18.0	22.4	2.5	3.3	0.0
McAllister 9.....	McAllister Seed Farms, Mt. Union.....	2,000	92.32	96.42	87.0	19.4	21.1	7.7	3.2	0.4
Crows 607.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	91.69	97.29	77.8	19.2	25.7	6.1	3.7	0.0
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	2,550	91.54	90.90	75.3	20.5	13.3	9.2	4.2	1.5
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	14,858	90.68	102.23	91.7	21.1	31.5	7.0	3.8	0.3
Kansas 2275 Waxy.....	U. S. D. A. & Farm Crops, Ames.....	Exp.	* 89.05	108.98	81.7	24.1	41.5	6.1	4.3	1.4
United U6.....	United Hybrid Growers Assn., Shenandoah.....	1,500	87.19	89.61	82.8	27.7	22.8	3.0	3.8	0.0
Average of all entries.....				107.52	85.0	20.2	15.5	5.7	3.9	0.8

*Experimental entries.

**Differences in yield between any two entries of less than 12.31 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

INDEX OF ENTRIES

The pedigrees of the experiment station and U. S. hybrids included in the 1948 test are listed below, together with the number of times a hybrid was entered in a section, when entered more than once.

Hybrid No.	Pedigree	Section entered*	Performance record in table no.
Illinois Hybrid 21.....	(WF9 x 38-11) x (187-2 x Hy).....	S	8, 12, 22, 23
Illinois Hybrid 201.....	(WF9 x 38-11) x (187-2 x L317).....	S	12, 22, 23
Illinois Hybrid 751.....	(WF9 x Hy) x (A x 90).....	NC	6, 10, 16-18
Indiana Hybrid 608C..	(WF9 x Hy) x (A x Tr).....	N,NC,SC	6, 9-11, 13-21
Indiana Hybrid 620A..	(WF9 x M14) x (Os420 x Hy).....	SC	7, 11, 19-21
Indiana Hybrid 620C..	(WF9 x Hy) x (Os420 x M14).....	SC	7, 11, 19-21
Iowa Hybrid 306.....	(L289 x I205) x (WF9 x Os420).....	NC, SC	7, 10, 11, 16-21
Iowa Hybrid 939.....	(L289 x I205) x (Os420 x Os420).....	NC, SC	6, 7, 10, 11, 16-21
Iowa Hybrid 4059.....	(WF9 x Hy) x (L289 x I205).....	NC	6, 10, 16-18
Iowa Hybrid 4060.....	(WF9 x 38-11) x (L289 x I205).....	NC,SC,S	6-8, 10-12, 16-23
Iowa Hybrid 4249.....	(M14 x 187-2) x (WF9 x Os420).....	NC	10, 16-18
Iowa Hybrid 4284.....	(WF9 x I205) x (L317 x Oh40B).....	SC	11, 19-21
Iowa Hybrid 4295.....	(L289 x I205) x (M14 x Os420).....	NC	6, 10, 16-18
Iowa Hybrid 4297.....	(M14 x 187-2) x (WF9 x I205).....	N, NC	6, 9, 10, 13-18
Iowa Hybrid 4298.....	(WF9 x M14) x (Os420 x 187-2).....	NC	6, 10, 16-18
Iowa Hybrid 4308.....	(WF9 x M14) x (A25 (M8-29) x B8)...	N	5, 9, 13-15
Iowa Hybrid 4316.....	(WF9 x M14) x (L289 x I205).....	N, NC	5, 6, 9, 10, 13-18
Iowa Hybrid 4320.....	(WF9 x Hy) x (38-11 x L317).....	SC	11, 19-21
Iowa Hybrid 4345.....	(M14 x Hy) x (WF9 x I205).....	NC	10, 16-18
Iowa Hybrid 4383.....	(WF9 x Hy) x (38-11 x Oh07).....	SC	11, 19-21
Iowa Hybrid 4385.....	(WF9 x 38-11) x (187-2 x Oh07).....	SC	11, 19-21
Iowa Hybrid 4387.....	(M14 x W22) x (Oh51A x Oh28).....	N	9, 13-15
Iowa Hybrid 4397.....	(M14 x W22) x (WF9 x I205).....	N, NC	9, 10, 13-18
Iowa Hybrid 4411.....	(WF9 x Hy) x (M14 x I205).....	NC	6, 10, 16-18
Iowa Hybrid 4412.....	(M14 x 187-2) x (WF9 x Hy).....	NC, SC	10, 11, 16-21
Iowa Hybrid 4417.....	(WF9 x M14) x (B8 x I153).....	N ₂	9, 13-15
Iowa Hybrid 4418.....	(WF9 x M14) x (I205 x W22).....	NC	10, 16-18
Iowa Hybrid 4423.....	(WF9 x 38-11) x (L317 x B2).....	SC	11, 19-21
Iowa Hybrid 4429.....	(WF9 x W22) x (Os420 x M14).....	NC	10, 16-18
Iowa Hybrid 4430.....	(WF9 x W22) x (Os420 x Oh28).....	NC	10, 16-18
Iowa Hybrid 4435.....	(WF9 x 38-11) x (R4 x B2).....	SC	11, 19-21
Iowa Hybrid 4441.....	(M14 x Oh28) x (B8 x Oh51A).....	N	5, 9, 13-15
Iowa Hybrid 4442.....	(W22 x Oh28) x (B8 x Oh51A).....	N	5, 9, 13-15
Iowa Hybrid 4450.....	(WF9 x M14) x (I205 x 187-2).....	NC	10, 16-18
Iowa Hybrid 4452.....	(WF9 x 187-2) x (38-11 x L317).....	SC	11, 19-21
Iowa Hybrid 4542.....	(WF9 x I153) x (B8 x M14).....	N	9, 13-15
Ohio Hybrid C92.....	(WF9 x 38-11) x (Hy x Oh07).....	SC ₂ , S	7, 11, 12, 19-23
U. S. Hybrid 13.....	(WF9 x 38-11) x (Hy x L317).....	SC ₂ , S ₃	7, 8, 11, 12, 19-23
U. S. Hybrid 35.....	(WF9 x 38-11) x (Hy x R4).....	SC, S	7, 8, 11, 12, 19-23

Entries in the 1948 Yield Test are grouped alphabetically together with the section or sections in which they were entered.

Hybrid No.	Section entered	Table No.
Allee Hybrid 454.....	NC	10, 16-18
ACE 94.....	N	5, 9, 13-15
ACE 193.....	S	8, 12, 22, 23
ACE 273.....	S	12, 22, 23
ACE 395.....	NC	6, 10, 16-18

*S—Southern Section; SC—South Central Section; NC—North Central Section; N—Northern Section.

Hybrid No.	Section entered	Table No.
ACE 395E.....	SC	11, 19-21
Bear OK-22.....	N	9, 13-15
Bear OK-31.....	NC	10, 16-18
Bear OK-40.....	S	8, 12, 22, 23
Bear OK-66.....	SC	11, 19-21
Beeghly 150.....	NC	6, 10, 16-18
Brookfield 81.....	NC	10, 16-18
Brookfield 887.....	NC	10, 16-18
Brookfield 990.....	SC	11, 19-21
Cargill N200.....	N	9, 13-15
Cargill N250.....	NC	10, 16-18
Cargill N300.....	SC	11, 19-21
Cargill N350.....	S	12, 22, 23
Carlson C-N4.....	N	9, 13-15
Clarke C217.....	N	5, 9, 13-15
Clarke C258.....	NC	10, 16-18
Clarke C277.....	SC	11, 19-21
Composite Single-Cross.....	NC	10, 16-18
Cornelius C66.....	SC	7, 11, 19-21
Cornelius 404C.....	N	5, 9, 13-15
Cornelius 405C.....	NC	10, 16-18
Cornhusker 50.....	SC	11, 19-21
Cornhusker 63.....	S	12, 22, 23
Cornhusker 75.....	N	9, 13-15
Cornhusker 84.....	N	9, 13-15
Cornhusker 85.....	NC	10, 16-18
Cornhusker 148.....	NC	6, 10, 16-18
Corn King 118A.....	SC	11, 19-21
Crows 607.....	S	12, 22, 23
DeKalb 239.....	N	9, 13-15
DeKalb 240.....	N	5, 9, 13-15
DeKalb 241.....	N	9, 13-15
DeKalb 404A.....	N, NC, SC	5-7, 9-11, 13-21
DeKalb 410.....	N, NC	5, 9, 10, 13-18
DeKalb 458.....	NC	6, 10, 16-18
DeKalb 609.....	NC	10, 16-18
DeKalb 639.....	SC	7, 11, 19-21
DeKalb 800A.....	S	8, 12, 22, 23
DeKalb 847.....	S	12, 22, 23
Dockendorff 13.....	S	8, 12, 22, 23
Dockendorff 52.....	SC	7, 11, 19-21
Eliason 99B.....	NC	10, 16-18
Epleys Early.....	N	9, 13-15
Exp. W-H.....	NC	10, 16-18
Farmers 223.....	N	9, 13-15
Farmers 321.....	N	5, 9, 13-15
Farmers 321A.....	N	9, 13-15
Farmers 322.....	NC	6, 10, 16-18
Farmers 388.....	N	9, 13-15
Farmers 421.....	SC	11, 19-21
Farmers 427A.....	NC	6, 10, 16-18
Farmers 488.....	SC	11, 19-21
Farmers 509.....	SC	7, 11, 19-21
Farmers 555.....	S	8, 12, 22, 23
Farmers 688.....	S	8, 12, 22, 23
Federal 205A.....	NC	10, 16-18
Federal 222B.....	N	9, 13-15
Funk G-1A.....	N	5, 9, 13-15
Funk G-4.....	N	5, 9, 13-15
Funk G-5.....	N	9, 13-15

*S—Southern Section; SC—South Central Section; NC—North Central Section; N—Northern Section.

Hybrid No.	Section entered	Table No.
Funk G-6.....	N	5, 9, 13-15
Funk G-28.....	NC	10, 16-18
Funk G-29.....	NC	6, 10, 16-18
Funk G-30.....	N	9, 13-15
Funk G-37.....	SC	7, 11, 19-21
Funk G-77.....	SC	11, 19-21
Funk G-94.....	S	12, 22, 23
Funk G-99.....	S	12, 22, 23
Funk G-169.....	SC	7, 11, 19-21
Funk 5558.....	S	12, 22, 23
Funk 44474.....	SC	11, 19-21
Funk 68038.....	NC	10, 16-18
Funk 71112.....	N	9, 13-15
Genetics Section 6492 x 6493.....	S	12, 22, 23
Genetics Section 7577 x 7578.....	SC	11, 19-21
Genetics Section 7581 x 7580.....	SC	11, 19-21
Harpers 105H.....	N	5, 9, 13-15
Harpers 307H.....	SC	7, 11, 19-21
Holden H-3.....	SC	7, 11, 19-21
Holden H-11.....	N	5, 9, 13-15
Holden H-22.....	NC	10, 16-18
Holden H-24.....	S	12, 22, 23
Holden 34-H.....	NC	10, 16-18
Holden 55-H.....	NC	10, 16-18
Holden 77-H.....	SC	11, 19-21
Holden 214-B.....	N	9, 13-15
Holden 214-H.....	N	9, 13-15
Holden 215-H.....	SC	11, 19-21
Holden 218-H.....	S	12, 22, 23
HOW.....	NC	10, 16-18
Iowax 4.....	NC	10, 16-18
Iowax 5.....	NC	10, 16-18
Iowealth "A".....	N	9, 13-15
Iowealth "AA".....	N	9, 13-15
Iowealth "AQ".....	NC	10, 16-18
Iowealth "AQA".....	NC	10, 16-18
Iowealth "BC4".....	NC	10, 16-18
Iowealth "BE".....	SC	11, 19-21
Iowealth "S".....	N	9, 13-15
Iowealth "25".....	SC	11, 19-21
Irlbeck I 104A.....	NC	10, 16-18
Irlbeck I 111.....	SC	11, 19-21
Irlbeck I 113.....	S	12, 22, 23
Jacobsen J-39-A.....	NC	6, 10, 16-18
Joslin Special 606A.....	NC	10, 16-18
Kansas 2275 Waxy.....	S	12, 22, 23
Maygold 39.....	S	8, 12, 22, 23
Maygold 49.....	SC	7, 11, 19-21
Maygold 59.....	SC	7, 11, 19-21
Maygold 59A.....	S	8, 12, 22, 23
Maygold 89.....	NC	6, 10, 16-18
Maygold 99A.....	S	12, 22, 23
Maygold 200.....	SC	11, 19-21
Maygold 1064.....	N	9, 13-15
Maygold 1065.....	NC	10, 16-18
McAllister 9.....	S	12, 22, 23
McAllister 73.....	S	8, 12, 22, 23
McAllister 99.....	S	12, 22, 23
McCurdy 96M.....	N	9, 13-15
McCurdy 111M.....	N	5, 9, 13-15

*S—Southern Section; SC—South Central Section; NC—North Central Section;
N—Northern Section.

Hybrid No.	Section entered	Table No.
McCurdy 112M	NC	6, 10, 16-18
McCurdy 117M	SC	7, 11, 19-21
McCurdy 123M	S	8, 12, 22, 23
McCurdy 124M	S	8, 12, 22, 23
McCurdy 124-2	S	12, 22, 23
McCurdy 600	NC	6, 10, 16-18
McCurdy 825	SC	11, 19-21
McCurdy 840	S	8, 12, 22, 23
McCurdy 987M	SC	7, 11, 19-21
Mellowdent M85	N	9, 13-15
Mellowdent M93	N	9, 13-15
Mellowdent No. 94	NC	10, 16-18
Mellowdent No. 95	NC	10, 16-18
Meyer 591	S	12, 22, 23
Mullins J-54	NC	6, 10, 16-18
Mullins J-76	N	5, 9, 13-15
PAG 3-E-1	S	12, 22, 23
PAG 52	N	9, 13-15
PAG 56	N	9, 13-15
PAG 170	SC	11, 19-21
PAG 253	NC	10, 16-18
PAG 270	NC	10, 16-18
PAG 277	NC	10, 16-18
PAG 281	SC	7, 11, 19-21
PAG 282	NC	10, 16-18
PAG 299	N	5, 9, 13-15
PAG 366B	NC	6, 10, 16-18
PAG 390	S	12, 22, 23
PAG 392	SC	7, 11, 19-21
PAG 4897	N	5, 9, 13-15
PAG 5897	SC	7, 11, 19-21
PAG 35-2965	NC	6, 10, 16-18
PAG 35-2966	SC	11, 19-21
Pfister 280	SC	7, 11, 19-21
Pfister 1897	S	8, 12, 22, 23
Pioneer 300	S	8, 12, 22, 23
Pioneer 302	S	12, 22, 23
Pioneer 304	SC	11, 19-21
Pioneer 321	N	5, 9, 13-15
Pioneer 322	N, NC	5, 6, 9, 10, 13-18
Pioneer 330	NC, SC	6, 7, 10, 11, 16-21
Pioneer 330B	N	9, 13-15
Pioneer 331	SC, S	8, 11, 12, 19-23
Pioneer 332	S	12, 22, 23
Pioneer 333	SC	11, 19-21
Pioneer 334	SC	11, 19-21
Pioneer 335	SC, S	7, 8, 11, 12, 19-23
Pioneer 336	S	8, 12, 22, 23
Pioneer 339	SC	11, 19-21
Pioneer 340	N, NC, SC, S	5-23
Pioneer 341	N, NC	5, 6, 9, 10, 13-18
Pioneer 343	NC	6, 10, 16-18
Pioneer 344	NC ₂	6, 10, 16-18
Pioneer 349	N	5, 9, 13-15
Pioneer 350A	NC ₂	10, 16-18
Pioneer 352	N ₂	9, 13-15
Pioneer 353	N	9, 13-15
Pioneer 353A	N	5, 9, 13-15
Pioneer 355	N	9, 13-15
Pioneer 373	NC	10, 16-18
Pioneer 381	N	9, 13-15
Pioneer X4117	S	12, 22, 23
Pioneer X4190	SC	11, 19-21
Pioneer X4510	N	9, 13-15
Pioneer X4741	NC	10, 16-18

*S—Southern Section; SC—South Central Section; NC—North Central Section;
N—Northern Section.

Hybrid No.	Section entered	Table No.
Pioneer X5646.....	NC	10, 16-18
Pride B45A.....	N	9, 13-15
Pride D56.....	N	9, 13-15
Pride D66.....	NC	6, 10, 16-18
Tomahawk 42.....	N	5, 9, 13-15
Tomahawk 61.....	NC	6, 10, 16-18
Tomahawk 80.....	SC	7, 11, 19-21
Tomahawk 88.....	S	12, 22, 23
Tri-State-Forty-seven.....	NC	10, 16-18
Turner N14A.....	N	5, 9, 13-15
Turner T26.....	N	5, 9, 13-15
Turner T46.....	NC	10, 16-18
Turner S53.....	S	8, 12, 22, 23
Turner S57.....	SC	7, 11, 19-21
Turner T60.....	S	8, 12, 22, 23
United U3.....	N	9, 13-15
United U4.....	NC	10, 16-18
United U5.....	SC	11, 19-21
United U6.....	S	12, 22, 23
United U26.....	N	9, 13-15
United U28.....	N	9, 13-15
United U30.....	NC	10, 16-18
United U32.....	N	9, 13-15
United U32A.....	N	9, 13-15
United U36.....	NC	6, 10, 16-18
United U36R.....	N	9, 13-15
United U39.....	N	9, 13-15
United U40.....	SC	11, 19-21
United U41.....	NC	10, 16-18
United U41A.....	NC	6, 10, 16-18
United U42.....	NC	10, 16-18
United U47.....	NC	10, 16-18
United U49.....	SC	11, 19-21
United U50.....	SC	7, 11, 19-21
United U52.....	SC	11, 19-21
United 52R.....	SC	11, 19-21
United U57.....	SC	7, 11, 19-21
United U57R.....	S	12, 22, 23
United U59.....	S	12, 22, 23
United U65.....	S	8, 12, 22, 23
United U67.....	S	12, 22, 23
United U68.....	S	12, 22, 23
United U72.....	S	12, 22, 23
U. S. 13 Waxy.....	S	12, 22, 23
Webster 396.....	N	9, 13-15
Webster 402.....	NC	10, 16-18
Webster 436.....	SC	11, 19-21
Webster 448.....	NC	10, 16-18
Webster 459.....	NC	6, 10, 16-18
Webster 480.....	SC	7, 11, 19-21
Wilson W-77.....	N	9, 13-15
Wilson W-111.....	NC	10, 16-18
Wilson W-145.....	N	9, 13-15
Wilson W-200.....	NC	10, 16-18
Wilson W-205A.....	SC	11, 19-21
Wilson W-245.....	NC	10, 16-18
Wilson W-300.....	S	12, 22, 23
Wilson W-310.....	SC	11, 19-21
Wilson W-350.....	S	12, 22, 23

*S—Southern Section; SC—South Central Section; NC—North Central Section;
N—Northern Section.